

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN AND CONSTRUCTION DIVISION

HAINES AIRPORT IMPROVEMENTS

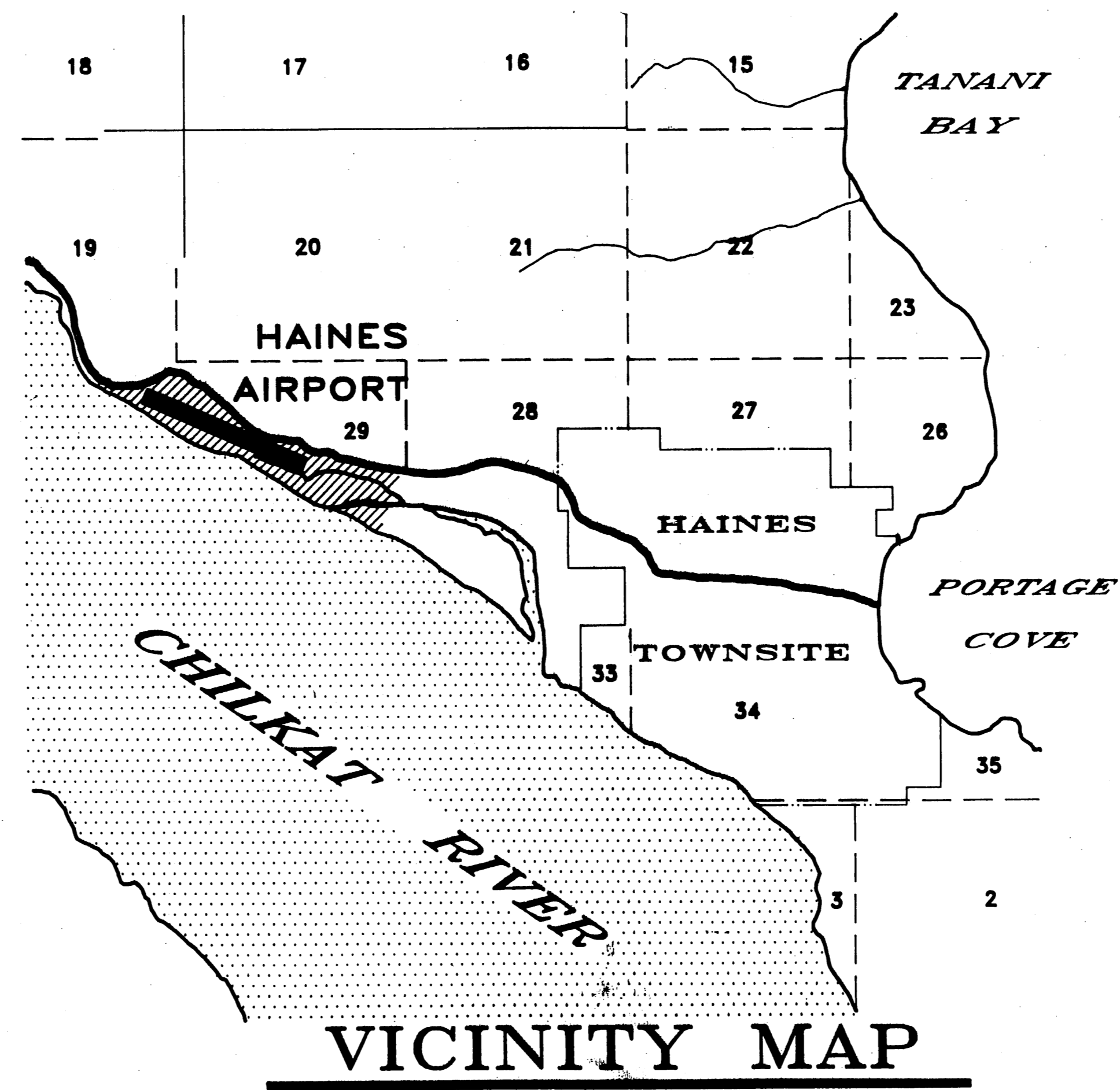
CONSTRUCTION OF
100' X 4,000' RUNWAY,
TAXIWAYS, APRON, AND RELATED WORK

A.I.P. NO. 3-02-0112-03
STATE NO. 69523
1990

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DESIGN DATA

RUNWAY SAFETY AREA	-	150' x 4600'
TAXIWAY SAFETY AREA	-	100' x 4000'
RUNWAY	-	100' x 4000'
TAXIWAY	-	75' x 4000'
AIRPORT CATEGORY	-	GENERAL UTILITY I
RUNWAY SURFACE	-	ASPHALT CONCRETE



AS-BUILT PLANS

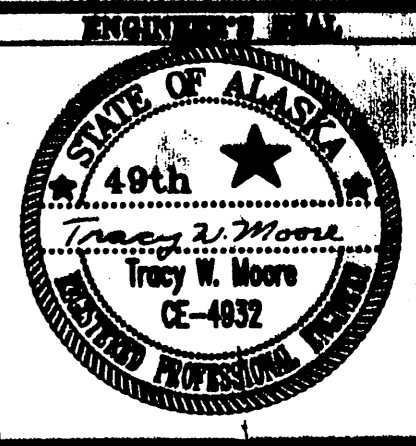
CONTRACTOR: NORTHERN TIMBER CORPORATION
ORIGINAL CONTRACT AMOUNT: 3,812,954.32
PROJECT ENGINEER: GREG BROWNING
START DATE: OCTOBER 1990
END DATE: JULY 1993

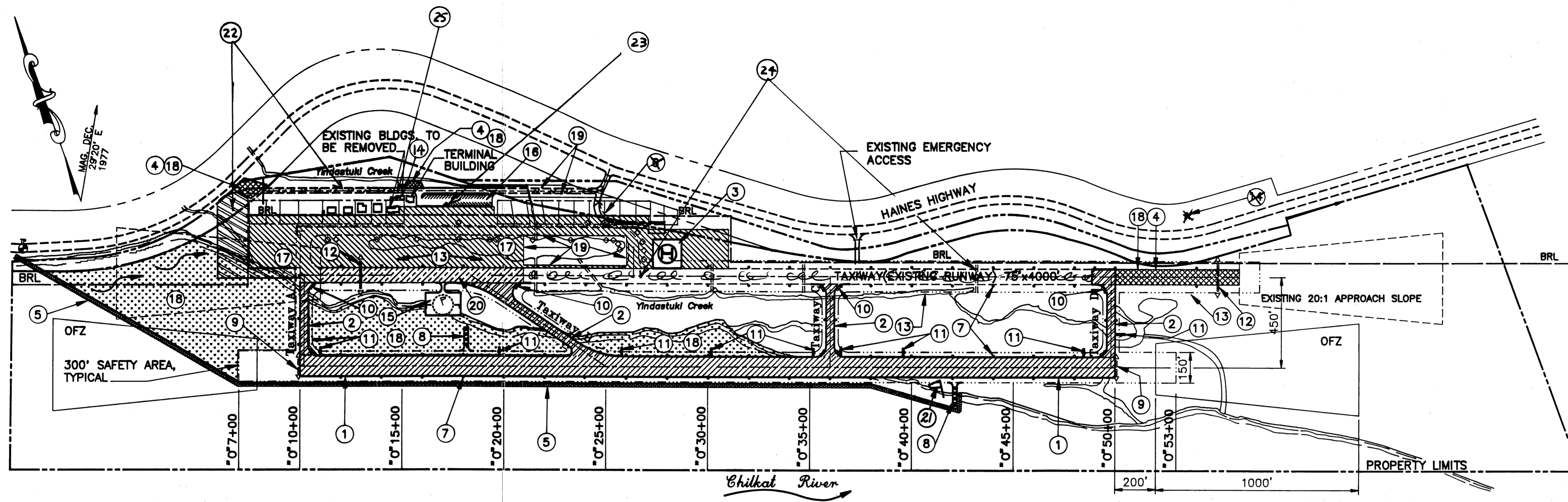
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEASTERN REGION DESIGN SECTION

APPROVED
G. Marshall
S.E. Region Design Chief Date: 8/10/90

APPROVED
E.W. Barmall
Director, S.E. Region Design & Construction Date: 8/10/90

PROJECT NUMBER: 69523
DATE: AUGUST 1990
SHEET 1 OF 39





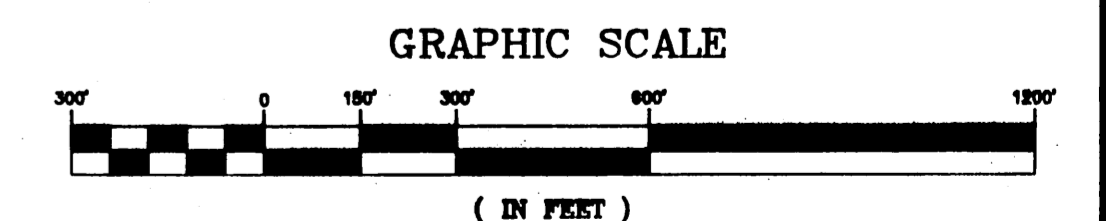
PROPOSED IMPROVEMENTS

- ① CONSTRUCT NEW RUNWAY 100'x4000' WITH 150'x4600' SAFETY AREA
- ② CONSTRUCT NEW TAXIWAY RAMPS (40' WIDE) (79' SAFETY AREA)
- ③ CONSTRUCT HELIPAD
- ④ REMOVE EXISTING FILL AND CONVERT TO WETLANDS
- ⑤ CONSTRUCT DIVERSION DIKE
- ⑥ CONSTRUCT NEW ACCESS ROADS
- ⑦ INSTALL NEW MIRL SYSTEM
- ⑧ INSTALL NEW PAPI SYSTEM
- ⑨ INSTALL NEW REIL LIGHTS & THRESHOLD LIGHTS
- ⑩ INSTALL NEW MITL SYSTEM / CONVERT EXISTING MIRL TO MITL

- ⑪ INSTALL NEW RUNWAY / TAXIWAY SIGNS
- ⑫ REMOVE EXISTING REIL LIGHTS & THRESHOLD LIGHTS
- ⑬ REMOVE EXISTING VASI LIGHTS
- ⑭ INSTALL AIRPORT BEACON
- ⑮ RELOCATE LIGHTED WINDCONE AND CONSTRUCT NEW SEGMENTED CIRCLE WITH TRAFFIC PATTERN
- ⑯ CONSTRUCT VEHICLE PARKING AREAS
- ⑰ CONSTRUCT NEW APRON WITH TIE-DOWNS AND DRAINAGE SYSTEM
- ⑱ WETLAND CREATION
- ⑲ SECURITY FENCE
- ⑳ OVERLAY PORTION EXISTING RUNWAY
- ㉑ NEW LIGHTED WINDCONE
- ㉒ APRON EXTENSION & HANGAR AREA ACCESS ROAD PAVED
- ㉓ KIOSK
- ㉔ TAXIWAY EXTENSION PAVING
- ㉕ NEW BEACON LOCATION

GENERAL NOTES :

1. GRADES AND LAYOUTS AS SHOWN ON THE PLANS ARE SUBJECT TO MINOR REVISIONS.
2. PIPE CONDUIT LENGTHS AND LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO MINOR REVISIONS.
3. AERIAL TELEPHONE FACILITIES AND UNDERGROUND ELECTRICAL SERVICE WILL BE RELOCATED BY OTHERS DURING THE PROJECT.
4. FISHERY PONDS AND CREEK RELOCATION WORK NOT SHOWN ON THIS DRAWING.
5. LOCATION OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES IS APPROXIMATE AND REQUIRE FIELD VERIFICATION. THE EXISTING POWER SUPPLY TO THE TERMINAL WILL BE RELOCATED BY OTHERS DURING THE CONTRACT.
6. WASTE FILL MATERIAL SHALL BE STOCKPILED IN AREAS DESIGNATED FOR WETLANDS CREATION. ALTERNATE SITES MAY BE USED WITH PRIOR APPROVAL.



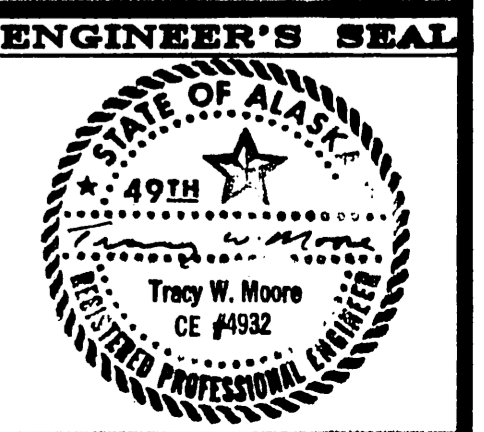
AS-BUILT
B.A. 2-9-96

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

**HAINES AIRPORT
SITE PLAN**

DESIGNED BY:	T.W. MOORE	PROJECT No.	69523
DRAWN BY:	AutoCAD / B.W.B.	DATE:	AUGUST 1990
CHECKED BY:	C. HAKARI	SHEET	2 OF 39



ESTIMATE OF QUANTITIES

Item No.	Description	Unit	Total
100	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D.
111	TEMPORARY EROSION AND POLLUTION CONTROL	C.S.	ALL REQ'D.
120	DBE ADJUSTMENT	C.S.	ALL REQ'D.
121	CONSTRUCTION SURVEYING BY THE CONTRACTOR	L.S.	ALL REQ'D.
125	ENGINEERING TRANSPORTATION	L.S.	ALL REQ'D.
200a	CLEARING	ACRE	32'24
121d	SURVEYING FOR CO NO. 2	L.S.	ALL REQ
210a	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	ALL REQ'D.
210b	BUILDING DEMOLITION	L.S.	ALL REQ'D.
210c	REMOVAL OF CULVERT PIPE	L.F.	786'886
250a	EXCAVATION & DISPOSAL OF PAVEMENT MATERIAL	S.Y.	18,600 20,149
330a	UNCLASSIFIED EXCAVATION	C.Y.	53,600 24,179
330c	EMBANKMENT	C.Y.	330,000 308,428
330e	FISHERIES POND EXCAVATION	C.Y.	17,000 16,908
330f	SUBSIDENCE PLATFORMS	EACH	10
350a	RIPRAP, CLASS II	C.Y.	14,500 14,500
350b	RIPRAP, CLASS III	C.Y.	5,805 5,700
351	INFILTRATION GALLERY	L.S.	ALL REQ'D.
400a	18-INCH CORRUGATED STEEL PIPE	L.F.	790 814
400b	24-INCH CORRUGATED STEEL PIPE	L.F.	800 854
400c	48-INCH CORRUGATED STEEL PIPE	L.F.	830
405	INLET, TYPE A	EACH	10
412	WELL SYSTEM	L.S.	ALL REQ'D.
440a	CHAIN LINK FENCE, 8 FEET HIGH	L.F.	3,628 3,800
440b	DRIVE-THRU SLIDE GATE (8'x20')	EACH	14
440c	PEDESTRIAN GATE (8'x4')	EACH	16
330H	FOUNDATION REPAIR	L.S.	ALL REQ
441	GATE OPERATOR	EACH	1
440D	FENCE FOR CO #2	L.F.	873
500a	SUBBASE COURSE	C.Y.	21,221 27,600
510a	CRUSHED AGGREGATE BASE COURSE	TON	15,872 55,900
551b	GEOTEXTILE, RIPRAP LINER	S.Y.	16,200 7,833
551c	CUSHION BLANKET	C.Y.	2,888 2,888
600a	BITUMINOUS PRIME COAT, CUTBACK	TON	102 102
660a	ASPHALT CONCRETE	TON	14,325 14,325
660c	ASPHALT CEMENT, AC-5	TON	330 330
700c	STATE TRAFFIC MARKING PAINT	L.S.	ALL REQ'D.
610	BITUMINOUS TACK COAT, CSS-1	TON	5
722	SEGMENTED CIRCLE	L.S.	ALL REQ'D.
801	CURB AND GUTTER, STD.	L.F.	680
820a	TIE-DOWN ANCHORS	EACH	102
900a	SEEDING	ACRE	24'29
900d	WASTE FILL	M.S.F.	1,010 963
910	SURVEY MONUMENTS	EACH	4
920	STANDARD SIGNS	S.F.	2319

ESTIMATE OF QUANTITIES

Item No.	Description	Unit	Total
1000a	NEW REGULATOR, L-828	EACH	1
1000e	NEW MEDIUM INTENSITY RUNWAY MARKER LIGHT, L-861	EACH	38'48
1000f	NEW TAXIWAY MARKER LIGHT, L-861T	EACH	48'55
1000g	NEW HANDHOLE, L-867	EACH	5'10
1000i	2" RIGID STEEL CONDUIT	L.F.	50'85
1000k	2" PVC CONDUIT	L.F.	27,697 15,675
1000L	UNDERGROUND CABLE #8 AWG, COPPER, 5KV TYPE "B", L-824	L.F.	24,413 19,000
1000m	#8 XHHW INSULATED COPPER GROUND CONDUCTOR	L.F.	14,215 14,000
1000o	REMOVE EXISTING RUNWAY LIGHTS	EACH	13'49
1000q	GROUND ROD	EACH	12'19
1000r	LIGHTED RUNWAY / TAXIWAY SIGNS	EACH	13
1000s	TAXIWAY LIGHT LENS	L.S.	ALL REQ'D.
1000t	ADJUST EXISTING HANDHOLE	EACH	8'12
1010a	RELOCATED WIND CONE	L.S.	ALL REQ'D.
1010b	8-FOOT LIGHTED WIND CONE	L.S.	ALL REQ'D.
1025	OMNIDIRECTIONAL REIL L-859	PAIR	2
1030	PAPI-4, L-880, STYLE "A", CLASS II	EACH	2
1040	ADDITIONAL ELECTRICAL	L.S.	ALL REQ

ALTERNATE No. 1

1020	AIRPORT LIGHT BEACON AND BEACON POLE	L.S.	ALL REQ'D.
330a	EMBANKMENT CO #2	C.Y.	10,719
1000D	ADDITIONAL STRIPING	L.S.	ALL REQ
930	KIOSK	L.S.	ALL REQ

ESTIMATING FACTORS

Item No.	Item	Factor
500a	SUBBASE COURSE	2.13 TONS / C.Y.
510a	CRUSHED AGGREGATE BASE COURSE	2.13 TONS / C.Y.
600a	BITUMINOUS PRIME COAT, CUTBACK	0.25 GAL/S.Y. & 256 GAL/TON
660a	ASPHALT CONCRETE	126 LBS. / S.Y.-IN.
660c	ASPHALT CEMENT, AC-5	5.1 6.5% OF ITEM 660a

REMOVAL OF STRUCTURES & OBSTRUCTIONS

Station	Offset	Description
"A" 15+09	96' LT.	DRAINAGE STRUCTURE
"A" 17+00	93' LT.	DRAINAGE STRUCTURE
"A" 19+00	94' LT.	DRAINAGE STRUCTURE
"A" 11+00	20' RT.	40'x40' CONCRETE PAD
"M" 16+63	25' RT.	4-CONCRETE PEDESTAL GUARD POSTS
"M" 14+85	30' RT.	STORAGE BUILDING
"M" 14+60	90' RT.	2-STORY RESIDENCE
"M" 16+25	32' LT.	WELL, ELEC. WIRE & CONDUIT, WATERLINE-SAVLAGE PUMP

CULVERT REMOVAL SUMMARY

Station	Length	Comments
"M" 16+95, C	46'	
"A" 15+09, 22' LEFT TO 94' LEFT	72'	
"A" 15+09, 94' LEFT TO 240' LEFT	146'	STRUCTURE @ 240' LT. TO REMAIN. GROUT HOLE.
"A" 17+00, 12 LEFT TO 90' LEFT	78'	
"A" 19+00, 18' LEFT TO 92' LEFT	74'	
"A" 30+45, 30' LEFT TO 240' LEFT	210'	
"T" 51+85, C	160'	

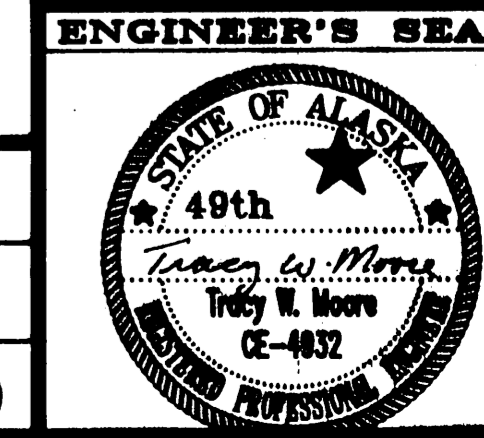
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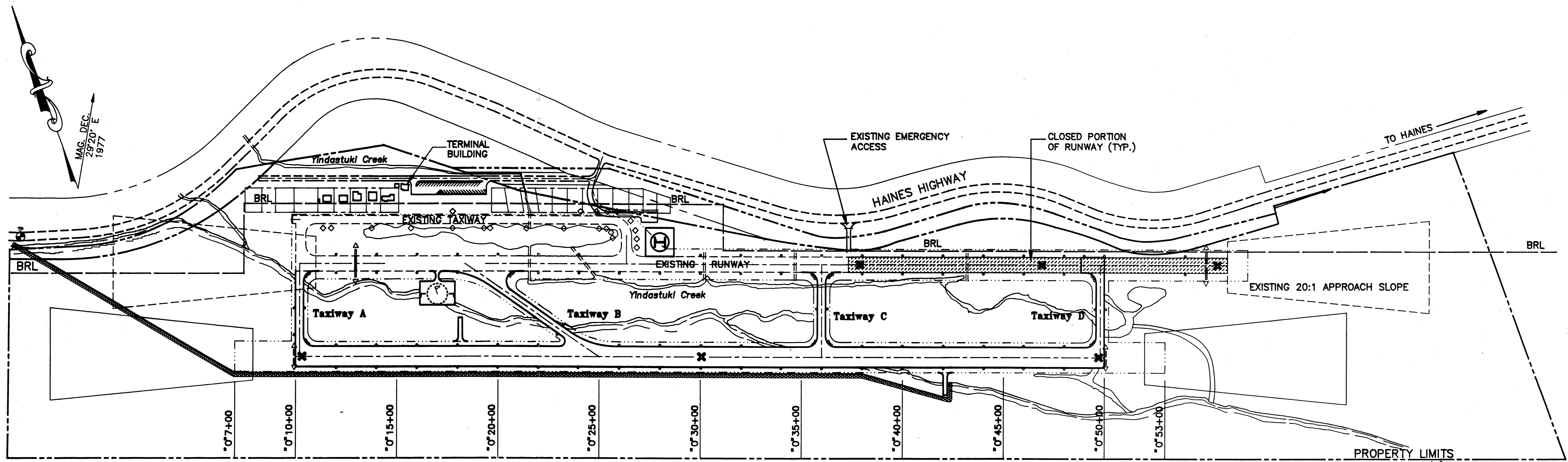
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
ESTIMATE OF QUANTITIES

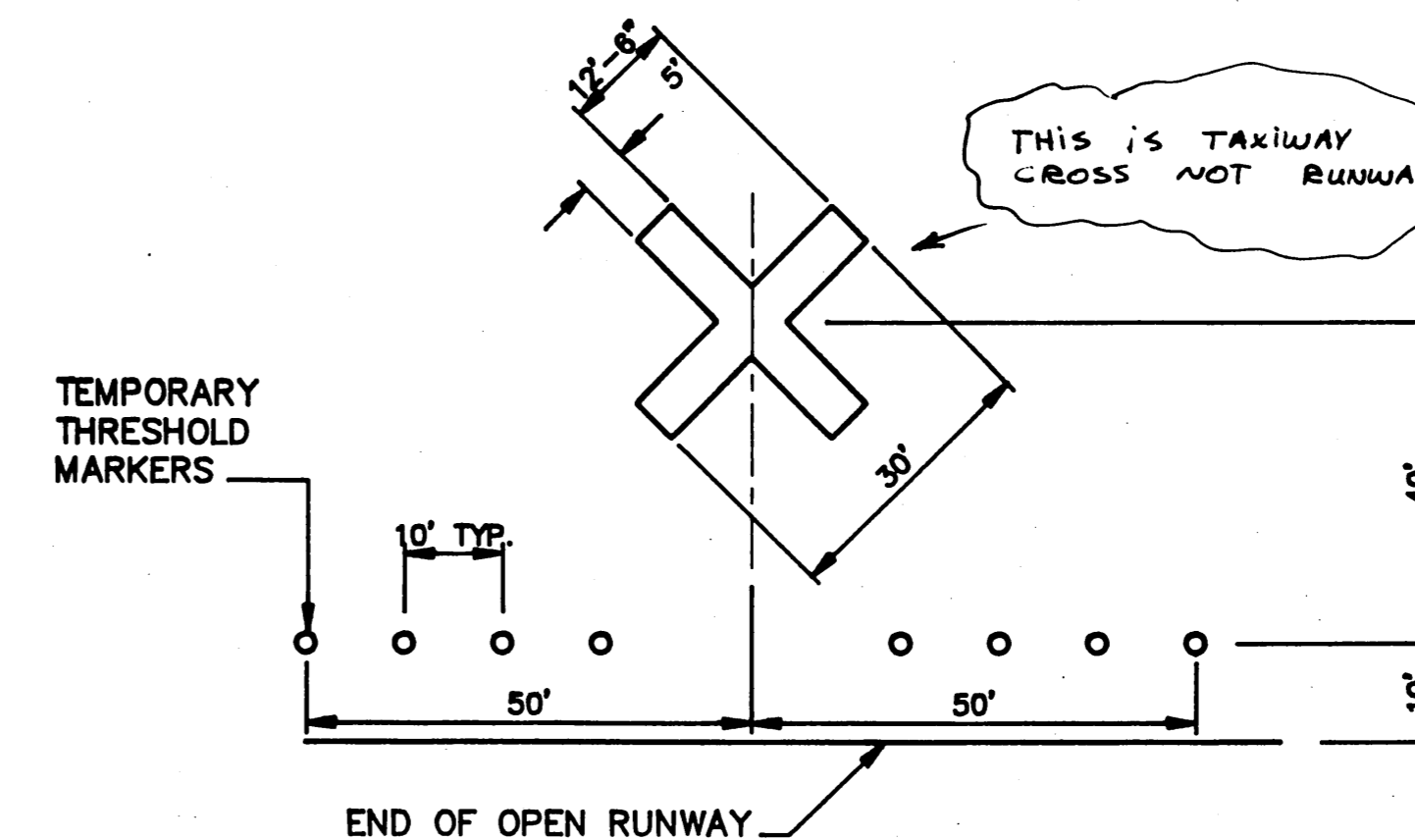
DESIGNED BY: T.W. MOORE
DRAWN BY: AutoCAD / B.W.B.
CHECKED BY: C. HAKARI
PROJECT No. 69523
DATE: AUGUST 1990
SHEET 3 of 39





RUNWAY CLOSURE NOTES:

1. AT LEAST A 2,500' X 75' LANDING SURFACE ON THE EXISTING RUNWAY SHALL REMAIN OPEN TO AIRCRAFT TRAFFIC AT ALL TIMES, UNTIL THE NEW RUNWAY IS PAVED AND OPENED.
2. THE WEST 2,500' OF THE EXISTING RUNWAY MUST REMAIN OPEN TO AIRCRAFT TRAFFIC FROM MAY 20 THRU SEPTEMBER 10, UNLESS THE NEW PAVED RUNWAY HAS BEEN OPENED. BOTH EXISTING TAXIWAY RAMPS SHALL REMAIN OPEN THROUGH THE SAME TIME PERIOD.
3. EQUIPMENT SHALL NOT BE ALLOWED ON THE OPEN PORTION OF THE EXISTING RUNWAY, OR WITHIN 200' OF IT'S TEMPORARY THRESHOLD. WHEN AIRCRAFT ARE APPROACHING OR DEPARTING, EQUIPMENT SHALL NOT BE WITHIN 100' OF THE OPEN RUNWAY CENTERLINE.
4. RUNWAY LIGHTS AND THRESHOLD LIGHTS ALONG THE OPEN PORTION OF THE RUNWAY SHALL REMAIN OPERATIONAL AT ALL TIMES. EXISTING THRESHOLD LIGHTS SHALL BE RELOCATED BY THE CONTRACTOR, AS NECESSARY TO IDENTIFY THE TEMPORARY RUNWAY LIMITS. RUNWAY LIGHTS ALONG THE CLOSED PORTION OF THE EXISTING RUNWAY SHALL BE REMOVED OR COVERED.
5. EXISTING RUNWAY NUMBERS SHALL BE COVERED OR REMOVED AT THE END OF THE RUNWAY THAT IS CLOSED.



CLOSED RUNWAY MARKER

NOT TO SCALE

CLOSED RUNWAY MARKER NOTES:

1. CROSSES SHALL BE YELLOW IN COLOR AND MAY BE CONSTRUCTED OF PLASTIC OR OTHER SUITABLE MATERIAL.
2. CROSSES SHALL BE PLACED AT EACH END OF AND IN THE MIDDLE OF THE CLOSED PORTION OF THE EXISTING RUNWAY.
3. CROSSES SHALL BE MAINTAINED ON THE NEW RUNWAY AS CONSTRUCTION PROCEEDS FROM TOP OF EMBANKMENT THROUGH OPENING TO TRAFFIC.

BY:	DATE:	DESCRIPTION OF CHANGE:

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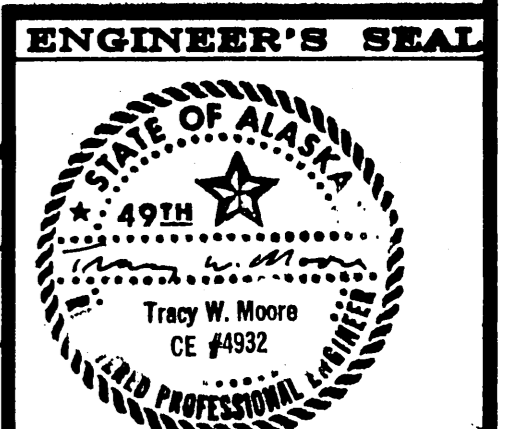
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

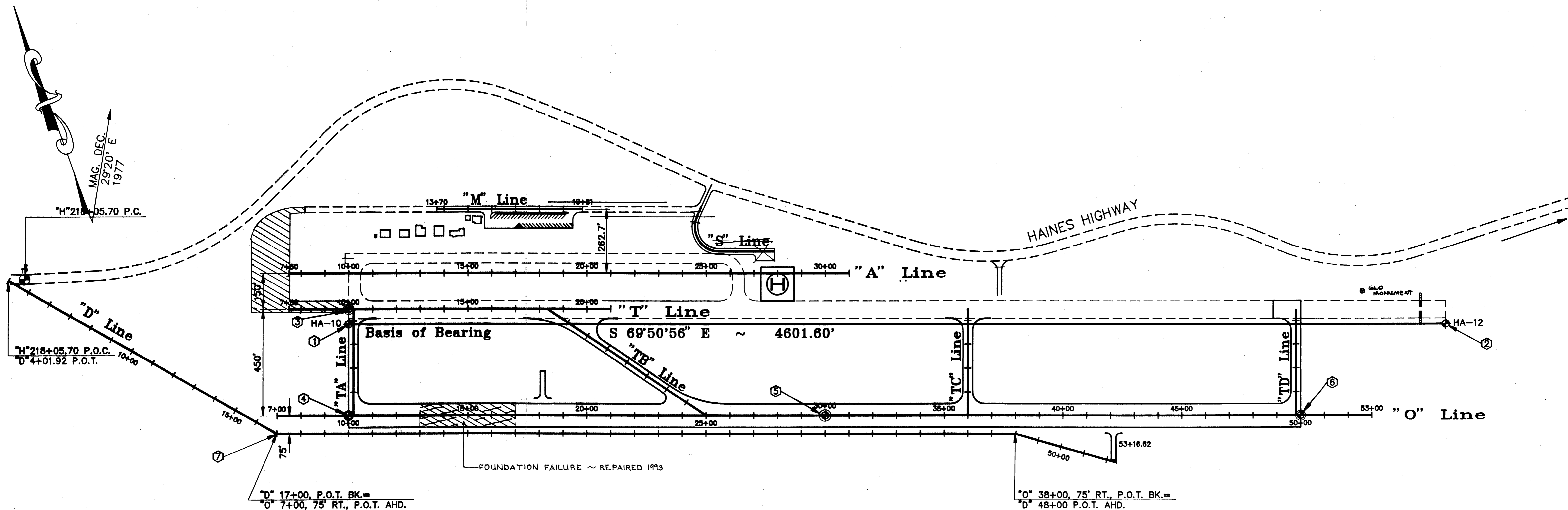
**HAINES AIRPORT
RUNWAY CLOSURE PLAN**

DESIGNED BY: T.W. MOORE
DRAWN BY: AutoCAD / B.W.B.
CHECKED BY: C. HAKARI

PROJECT No. 89523
DATE: AUGUST 1990
SHEET 4 OF 39

AS-BUILT
B.A. 2-9-96





COORDINATE TABLE			
Point No.	Northing	Easting	Elevation
①	19985.814	38348.379	18.51
②	18400.584	42868.302	16.02
③	20034.361	38366.215	
④	19611.949	38211.077	23.74
⑤	18922.445	40088.464	22.00
⑥	18232.940	41965.852	20.28
⑦	19644.972	37903.612	21.50

ABBREVIATIONS	
REIL	- RUNWAY END IDENTIFICATION LIGHT
MIRL	- MEDIUM INTENSITY RUNWAY LIGHT
PAPI	- PRECISION APPROACH PATH INDICATOR
MITL	- MEDIUM INTENSITY TAXIWAY LIGHT
VASI	- VISUAL APPROACH SLOPE INDICATOR
BST	- BITUMINOUS SURFACE TREATMENT
TORR	- TOP OF RIPRAP
BRL	- BUILDING RESTRICTION LINE

LEGEND	
	RIPRAP DIKE
	EXISTING MONUMENT
	NEW MONUMENT
	EXISTING GROUND
	EXISTING PROPERTY LINE
	FUTURE PROPERTY LINE
	BUILDING RESTRICTION LINE (BRL)
	SUBSIDENCE PLATFORM

- NOTES :**
- FOR "D" LINE LAYOUT, SEE SHEET 21.
 - BASIS OF VERTICAL AND HORIZONTAL CONTROL ARE STATED ON SHEET No. 7.
- APRON EXTENSION & T-HANGAR AREA

AS-BUILT
B.D. 2-9-96

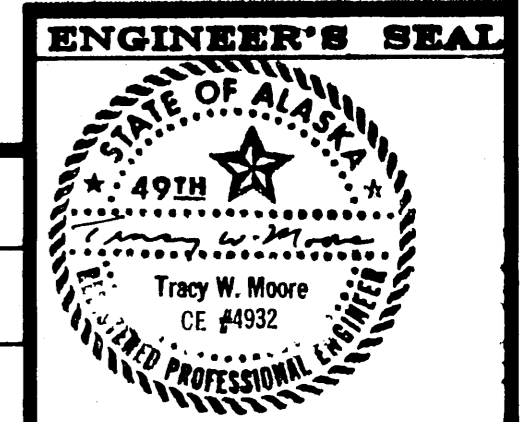
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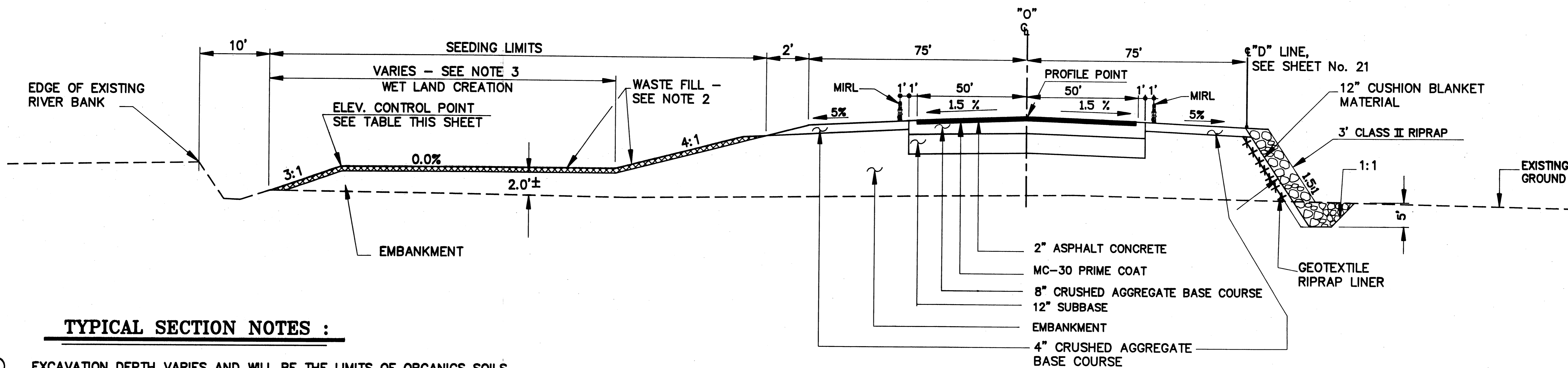
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
LAYOUT SHEET

DESIGNED BY: C. HAKARI	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: T.W. MOORE	SHEET 5 OF 39





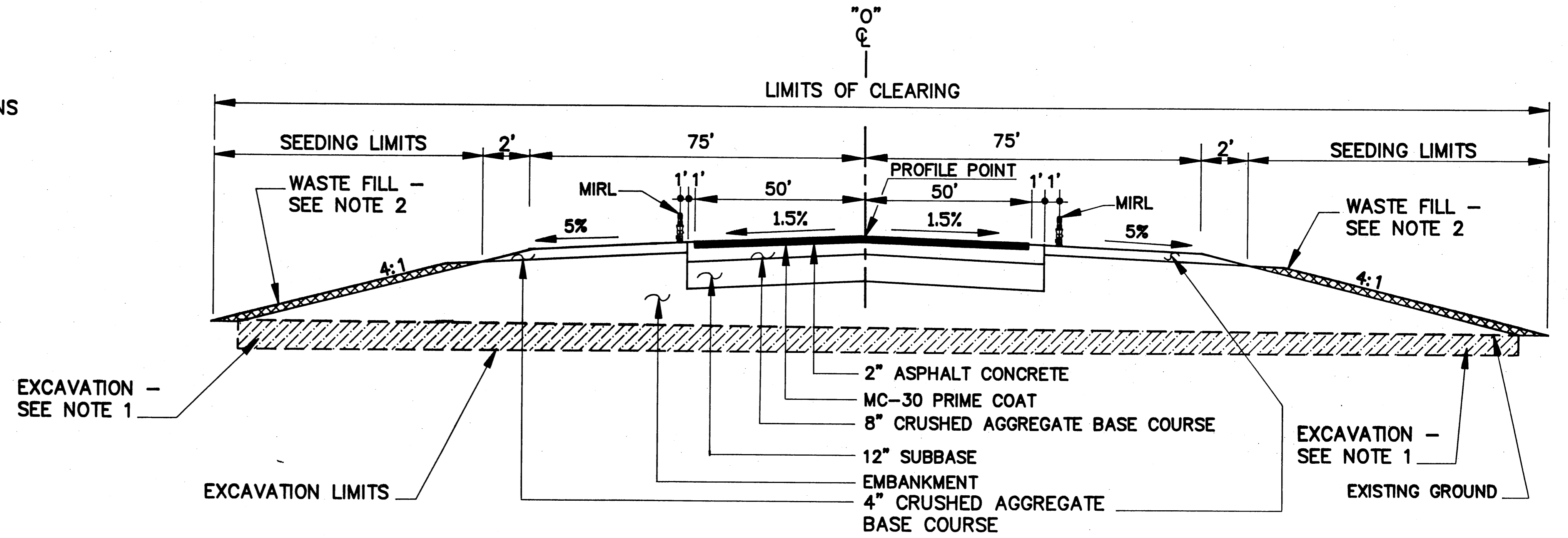
TYPICAL SECTION NOTES :

- ① EXCAVATION DEPTH VARIES AND WILL BE THE LIMITS OF ORGANICS SOILS OR AS DIRECTED.
- ② WASTE FILL - GRUBBING DEBRIS, EXCAVATION OF ORGANIC SOILS AND/OR TOPSOIL - SHALL BE PLACED ON ALL NEW EMBANKMENT SLOPES FOR SEED PROPAGATION. DEPTH SHALL BE 2" MINIMUM.
- ③ WIDENED EMBANKMENT FOR WETLAND CREATION SHALL EXTEND FROM STATION "D" 4+50 TO STATION "D" 17+00 AND STATION "O" 7+00 TO STATION "O" 33+00. SEE SHEETS No. 2 AND 21.
- ④ IN RUNWAY SAFETY AREAS, STATIONS "O" 7+00 TO "O" 10+00 AND STATIONS "O" 50+00 TO "O" 53+00, PLACE AN ADDITIONAL 2" CRUSHED AGGREGATE BASE IN LIEU OF THE 2" ASPHALT CONCRETE.

ELEVATION CONTROL POINTS	
STATION	ELEVATION
"D" 4+50	15.50
"D"17+00="O"7+00	15.00
"O" 10+50	15.00
"O" 33+00	14.00

ELEVATIONS SHALL VARY LINEARLY BETWEEN CONTROL POINTS. OFFSETS ARE TO THE LEFT AND ARE VARIABLE. SEE RUNWAY TYPICAL THIS SHEET AND DIKE TYPICAL ON SHEET No. 21.

RUNWAY
STA. "O"7+00 TO "O"42+25



RUNWAY
STA. "O"42+25 TO "O"53+00

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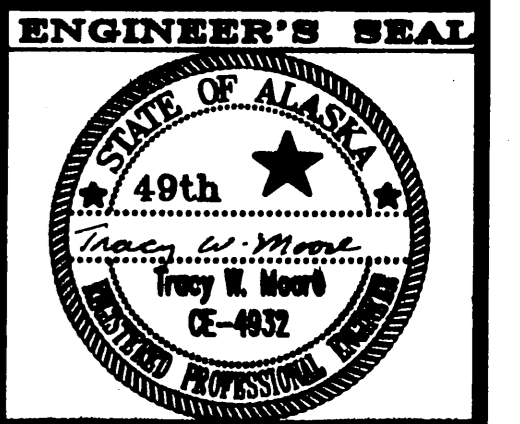
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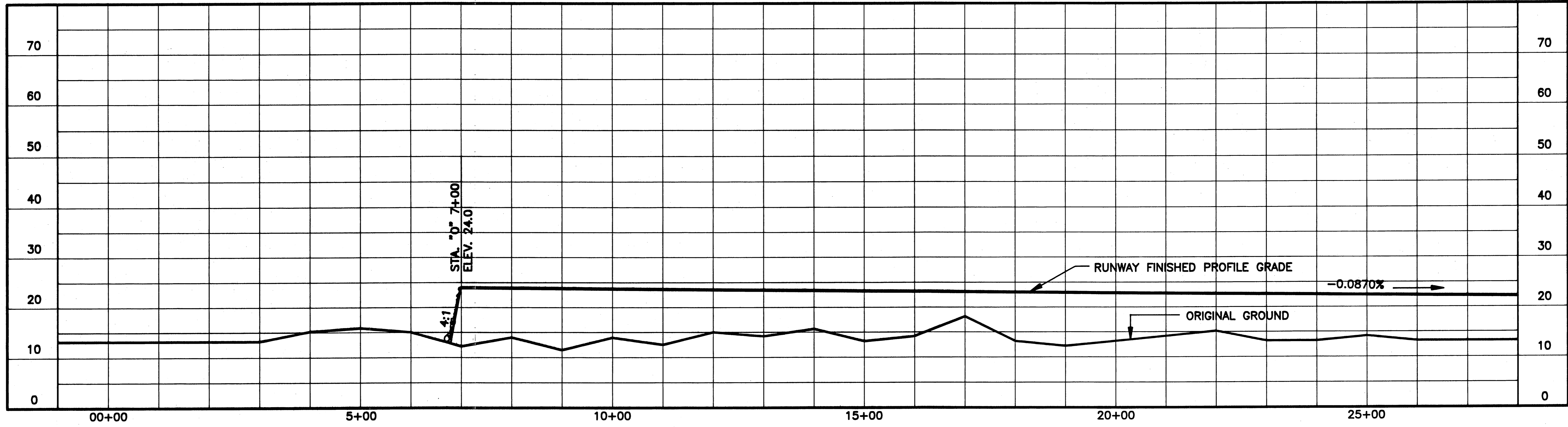
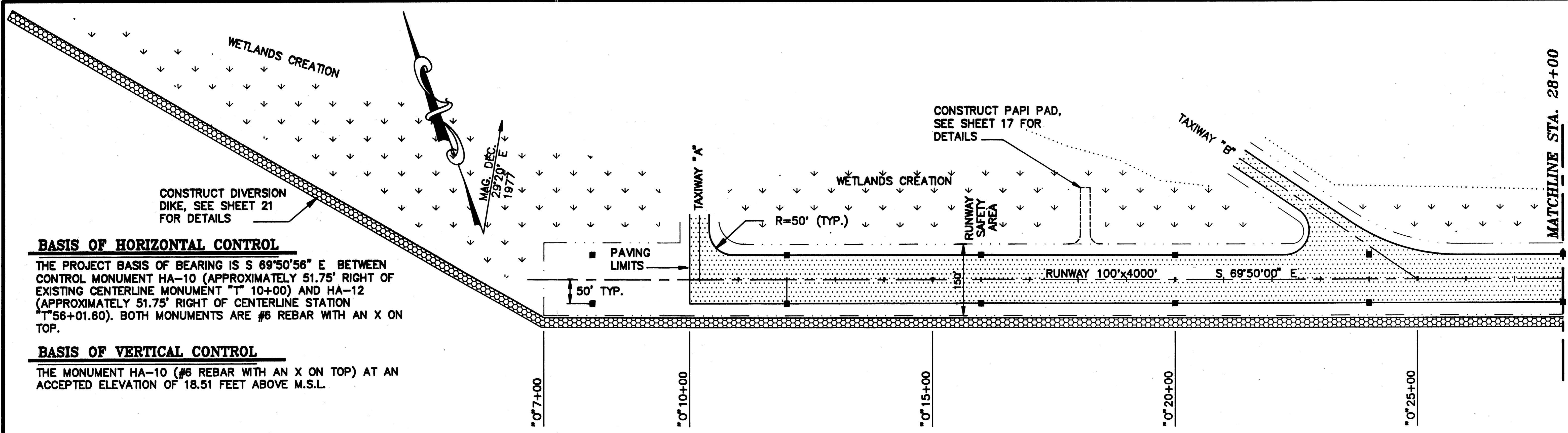
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
RUNWAY TYPICAL SECTIONS

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 6 OF 39





AS-BUILT
B.A. 2-9-94

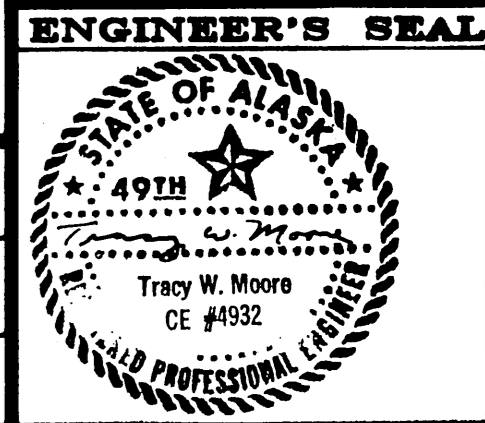
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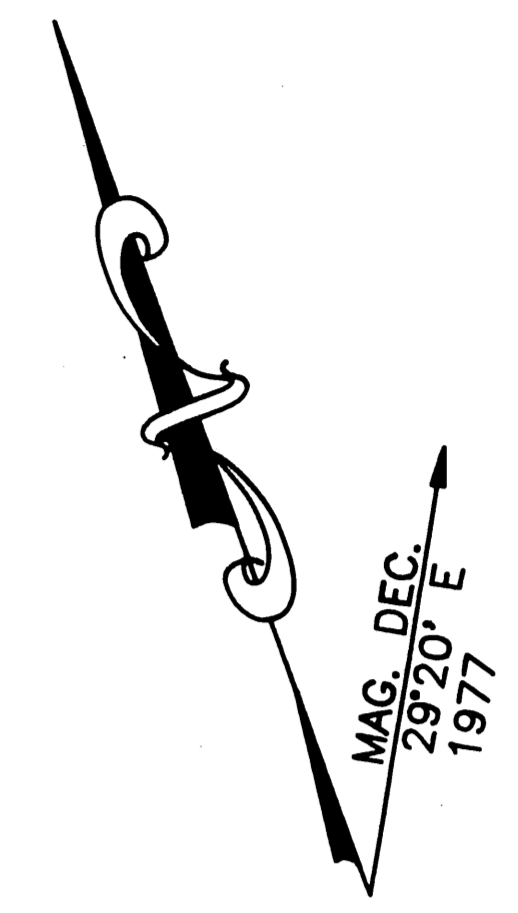
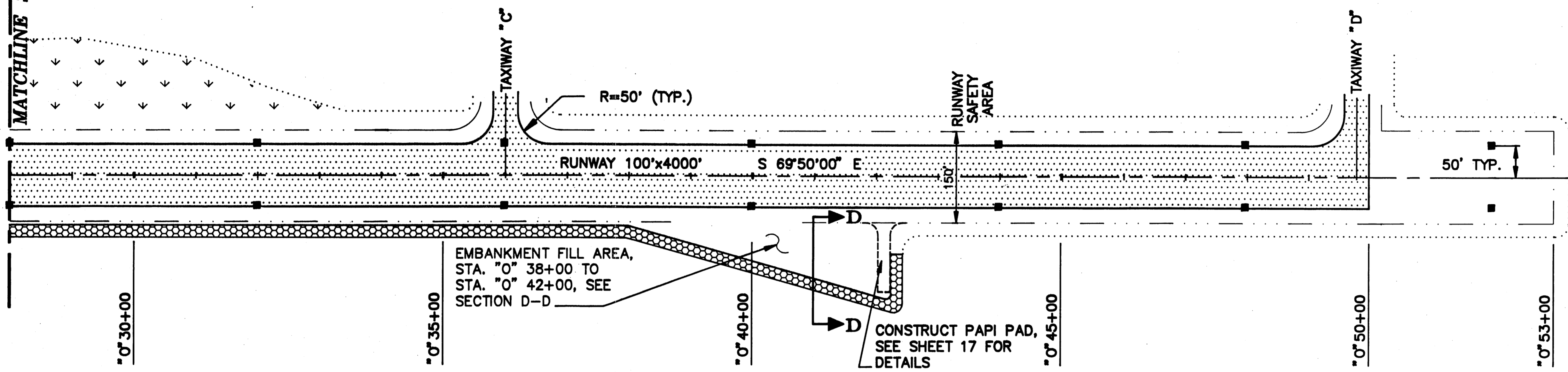
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
RUNWAY PLAN AND PROFILE

DESIGNED BY: T.W. MOORE	PROJECT No. 89523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 7 OF 39

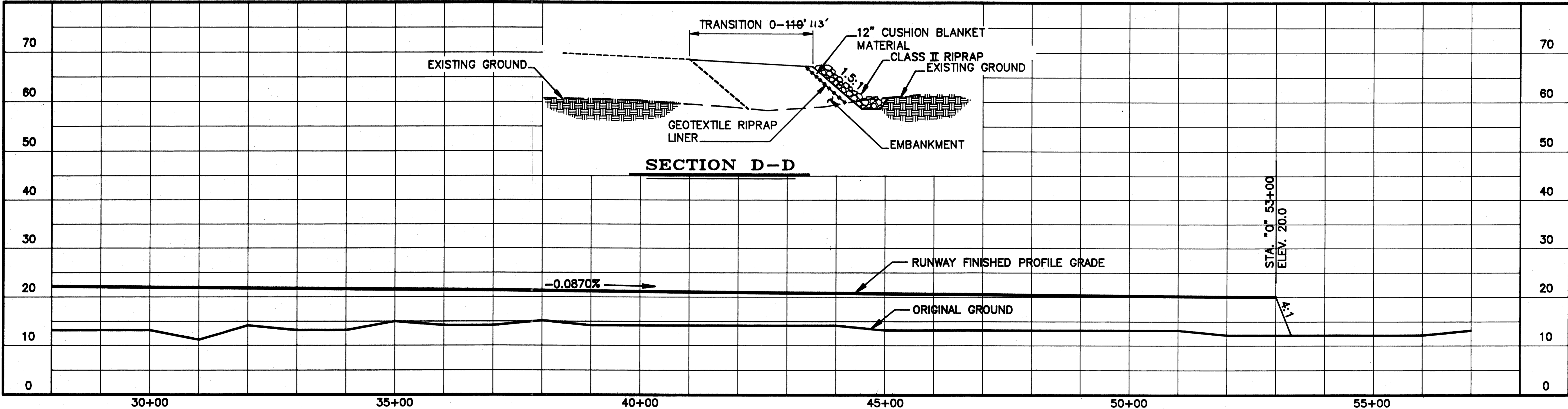


MATCHLINE STA. 28+00



EMBANKMENT FILL AREA,
STA. "0" 38+00 TO
STA. "0" 42+00, SEE
SECTION D-D

CONSTRUCT PAPI PAD,
SEE SHEET 17 FOR
DETAILS



AS-BUILT
B.A. 2-9-96

BY:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
RUNWAY PLAN AND PROFILE

DESIGNED BY:
T.W. MOORE

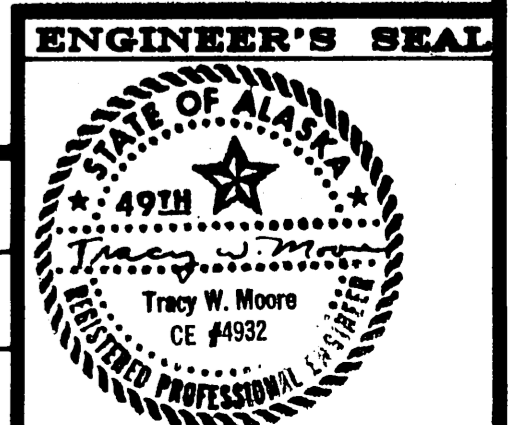
DRAWN BY:
AutoCAD / B.W.B.

CHECKED BY:
C. HAKARI

PROJECT No.
69523

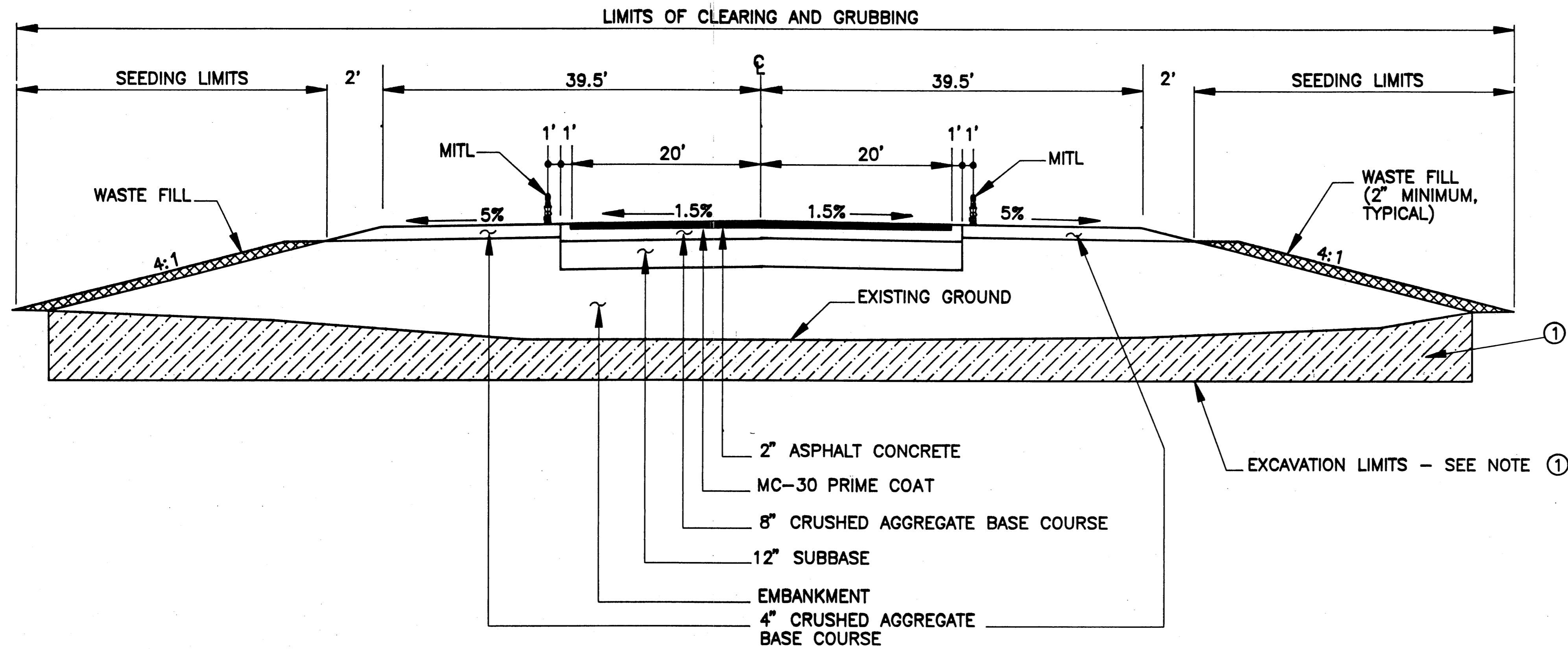
DATE:
AUGUST 1990

SHEET 8 OF 39



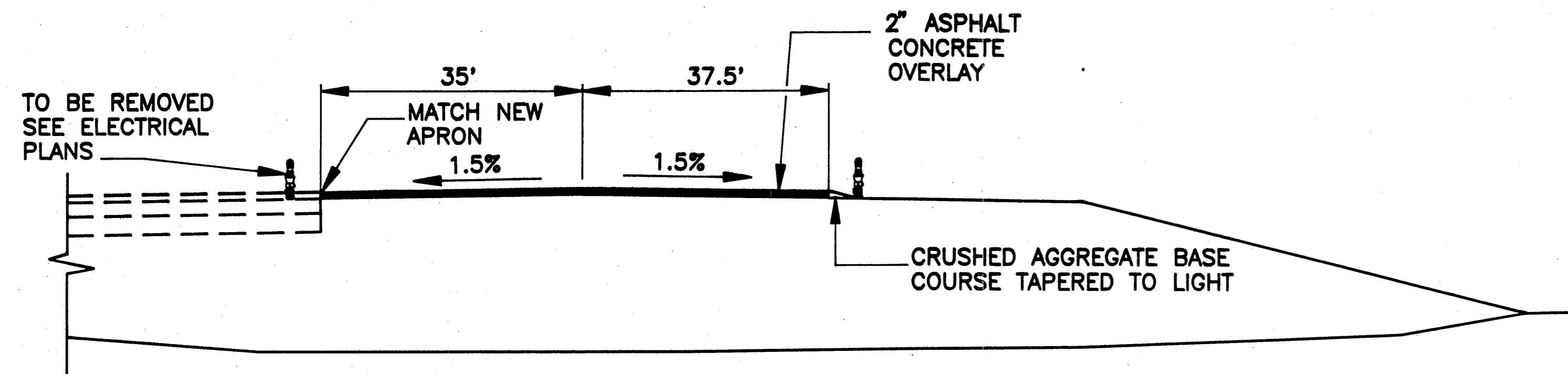
TYPICAL SECTION NOTES :

① EXCAVATION DEPTH VARIES AND WILL BE THE LIMITS OF ORGANICS SOILS OR AS DIRECTED BY THE ENGINEER.



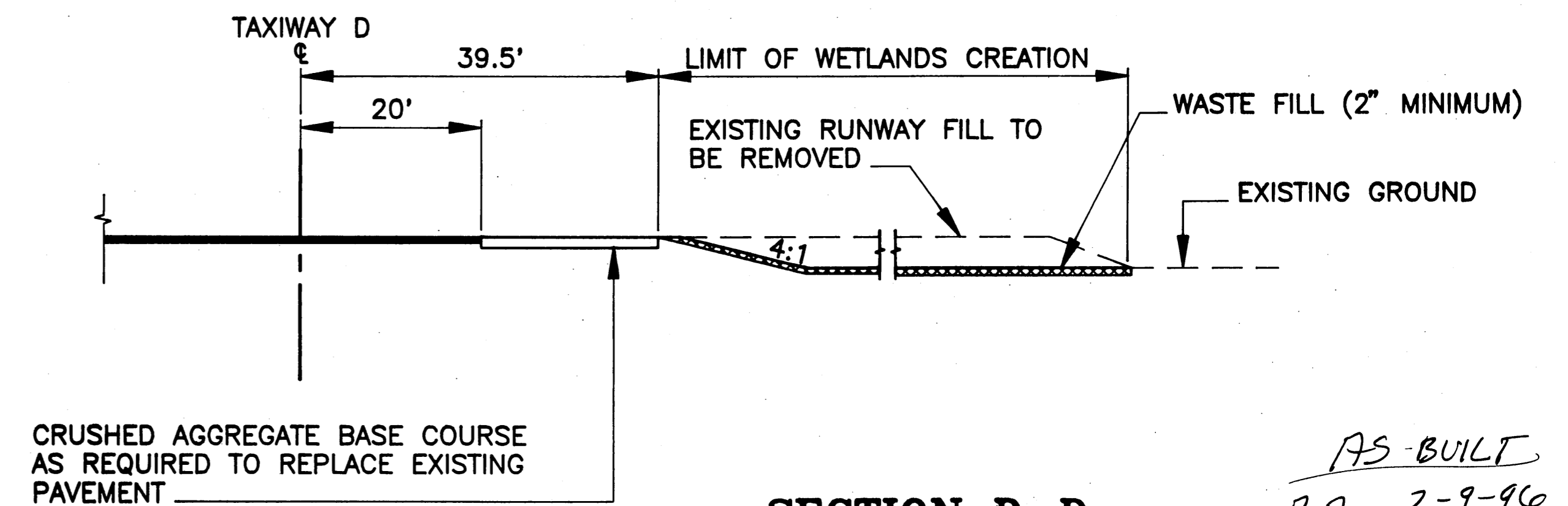
TAXIWAY

A, B, C, & D



TAXIWAY

STA. "T" 11+00 TO STA. "T" 21+00



SECTION D-D

SEE SHEET 10 FOR PLAN VIEW

AS-BUILT
B.A. 2-9-96

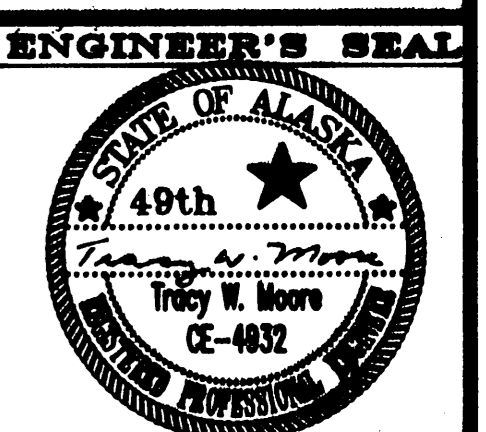
BY:	DATE:	DESCRIPTION OF CHANGE:

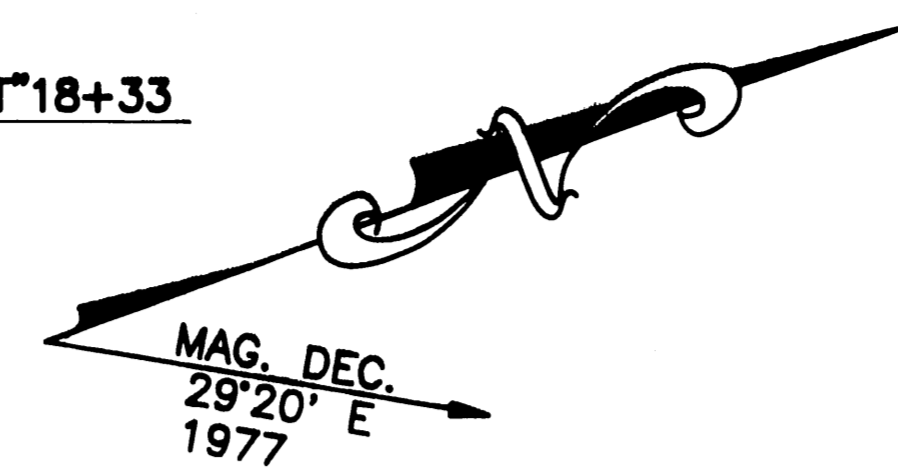
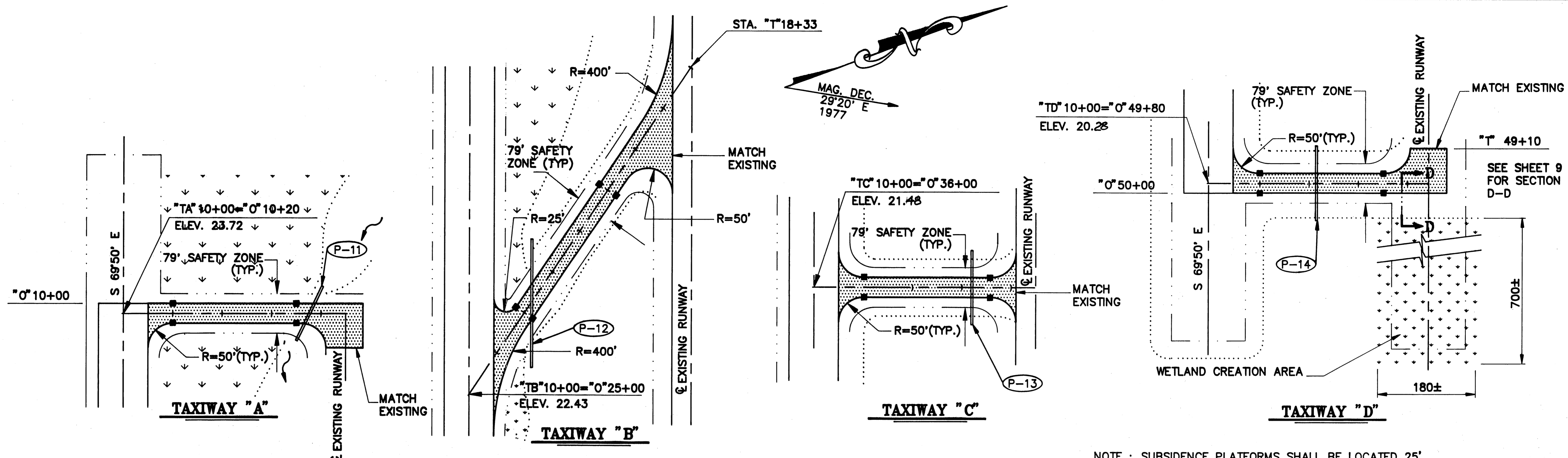
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

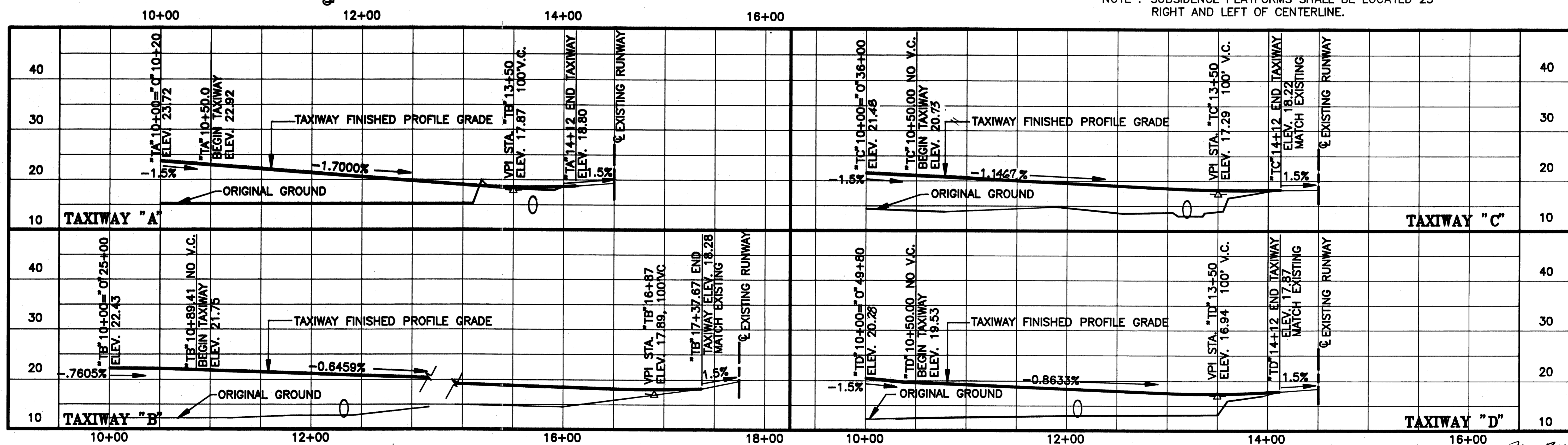
**HAINES AIRPORT
TAXIWAY TYPICAL SECTION**

DESIGNED BY:	T.W. MOORE	PROJECT No.	69523
DRAWN BY:	AutoCAD / B.W.B.	DATE:	AUGUST 1990
CHECKED BY:	C. HAKARI	SHEET	9 OF 39





NOTE : SUBSIDENCE PLATFORMS SHALL BE LOCATED 25' RIGHT AND LEFT OF CENTERLINE.



BY:	DATE:	DESCRIPTION OF CHANGE:

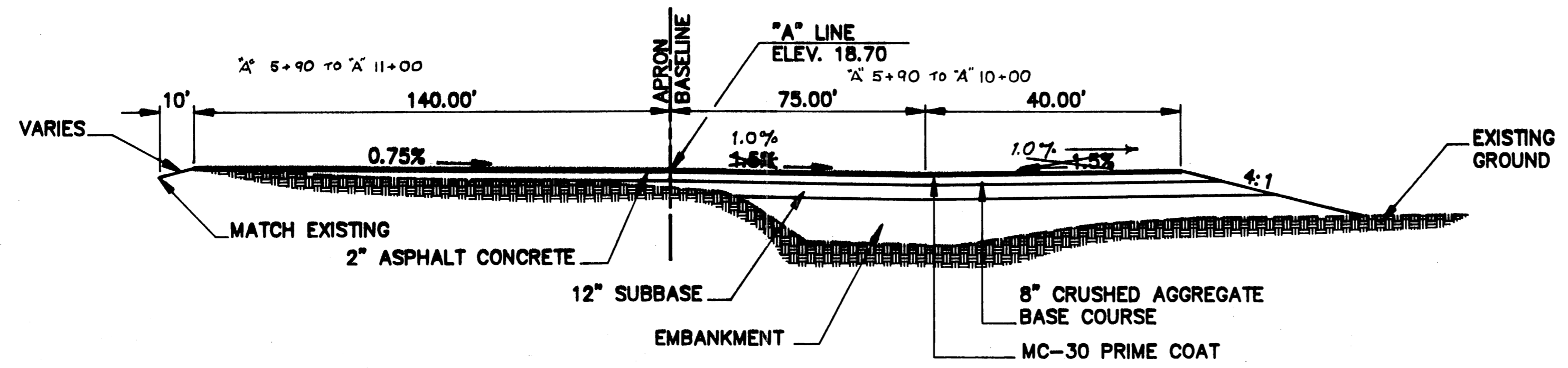
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT TAXIWAYS PLAN AND PROFILE

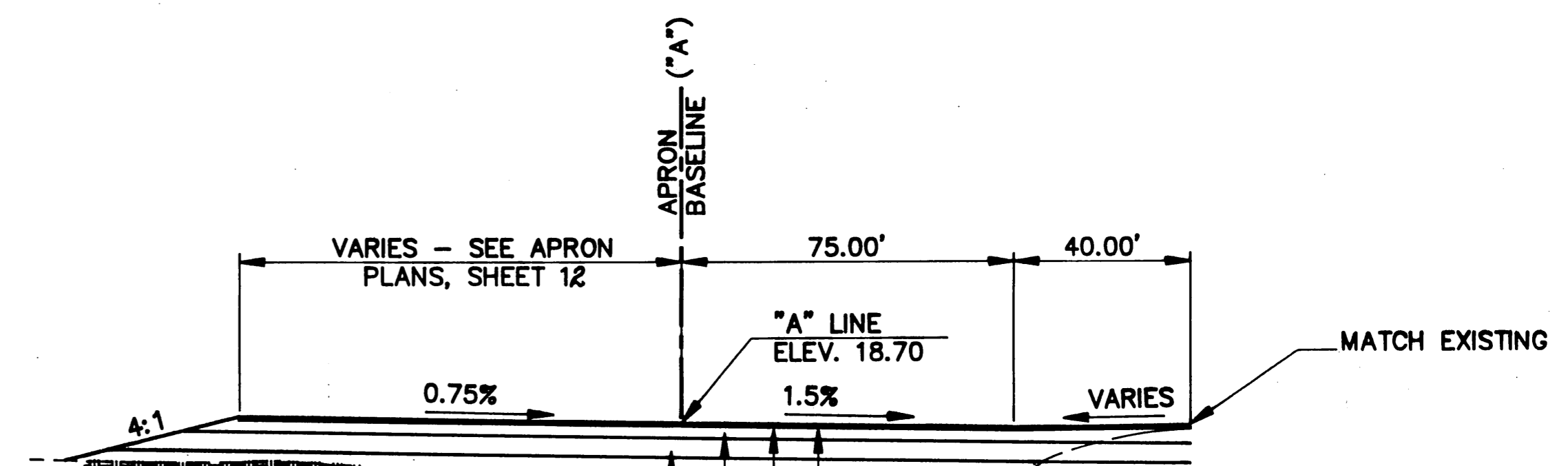
DESIGNED BY: T.W. MOORE	PROJECT No. 69623
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 10 OF 39

AS-BUILT
B.A. 2-9-96

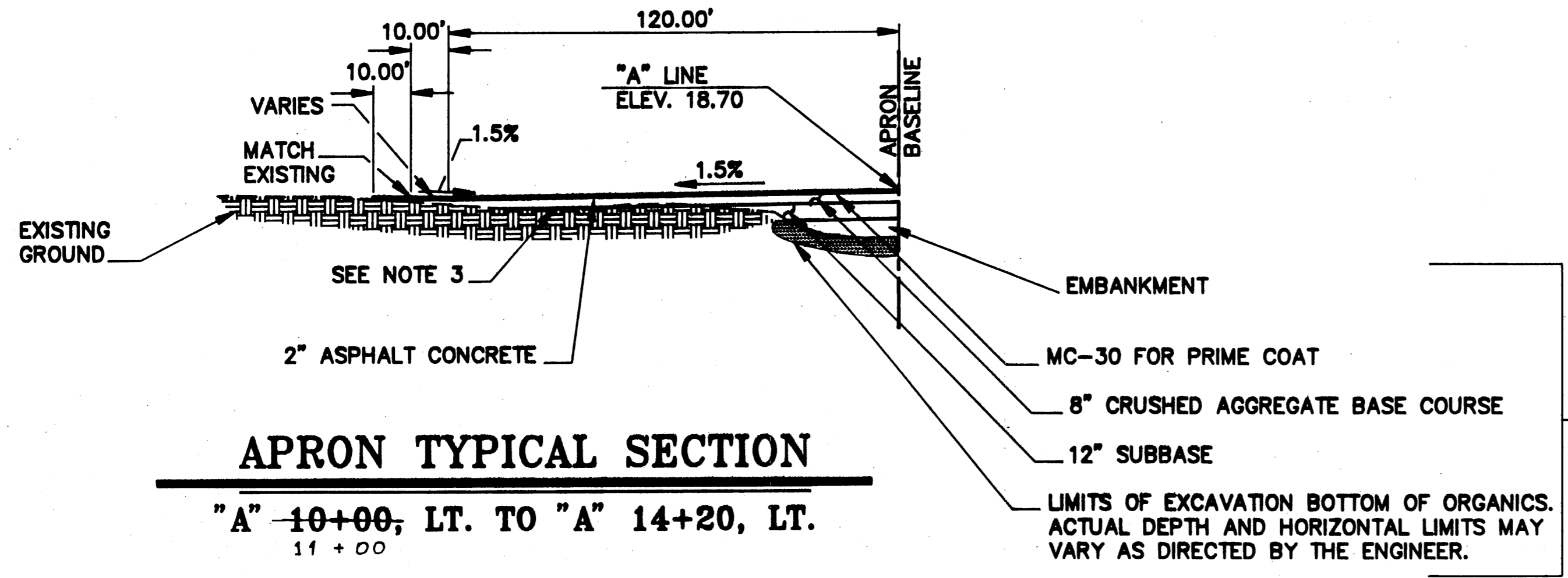
ENGINEER'S SEAL



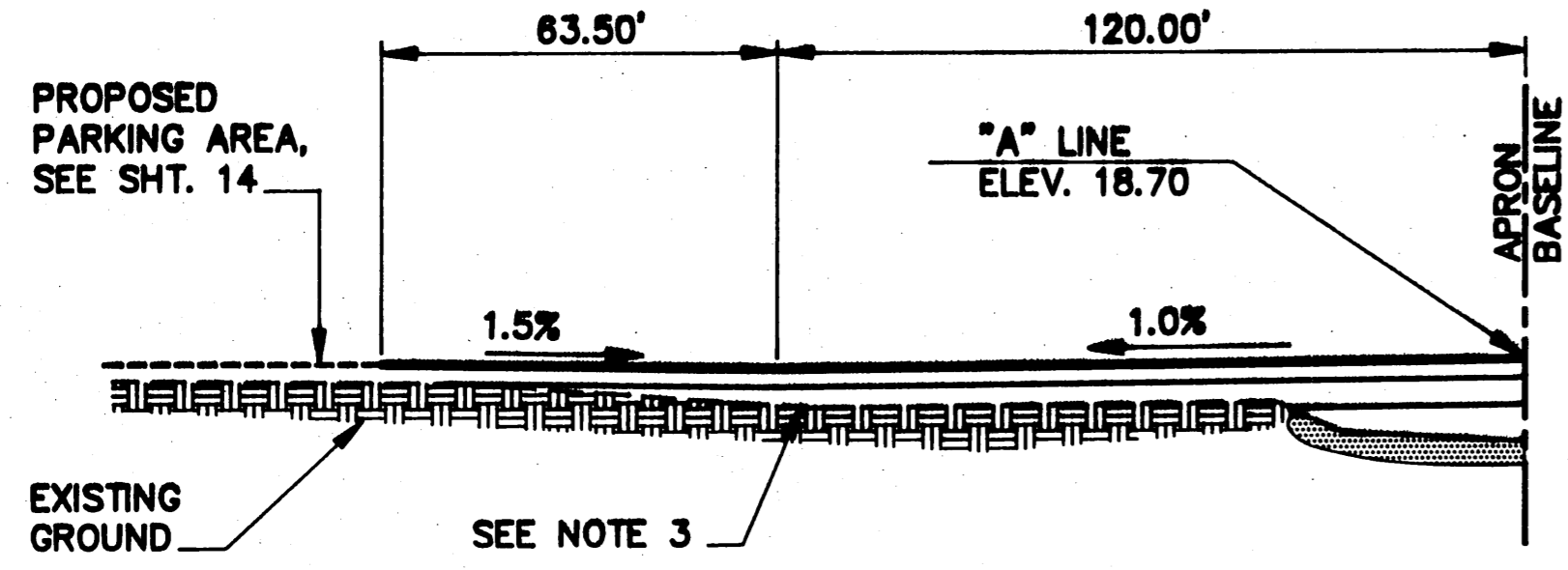
APRON TYPICAL SECTION
"A" 7+50 TO "A" 10+00



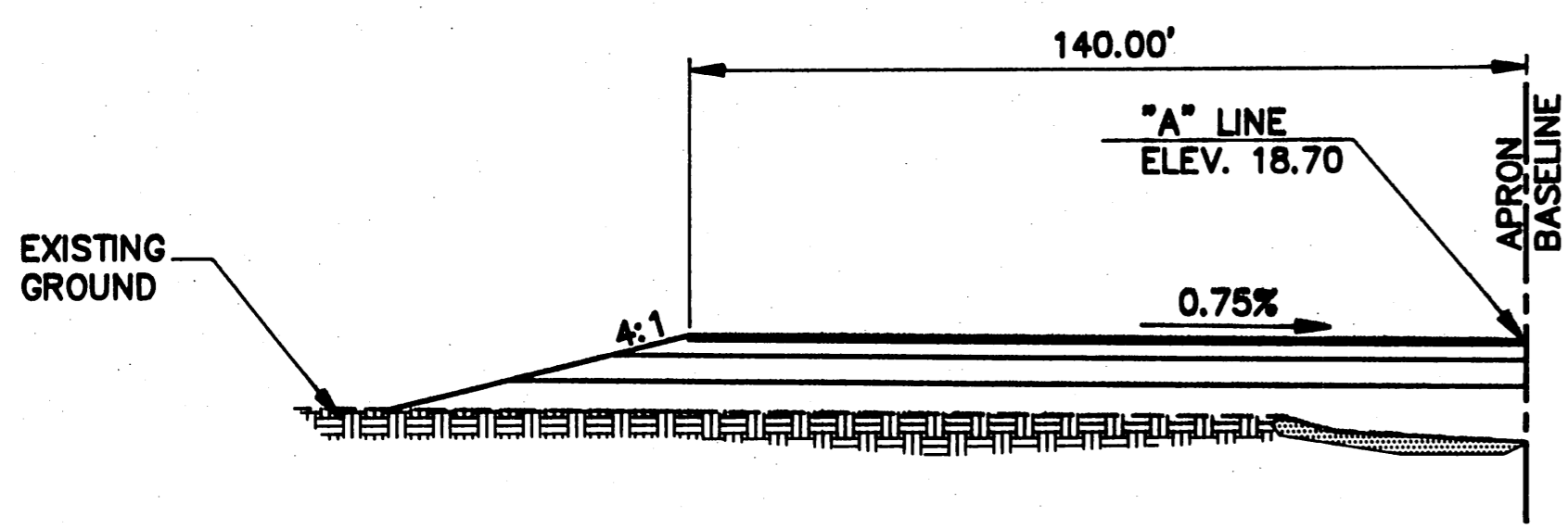
HELIPAD TYPICAL SECTION
"A" 21+00 TO "A" 31+00



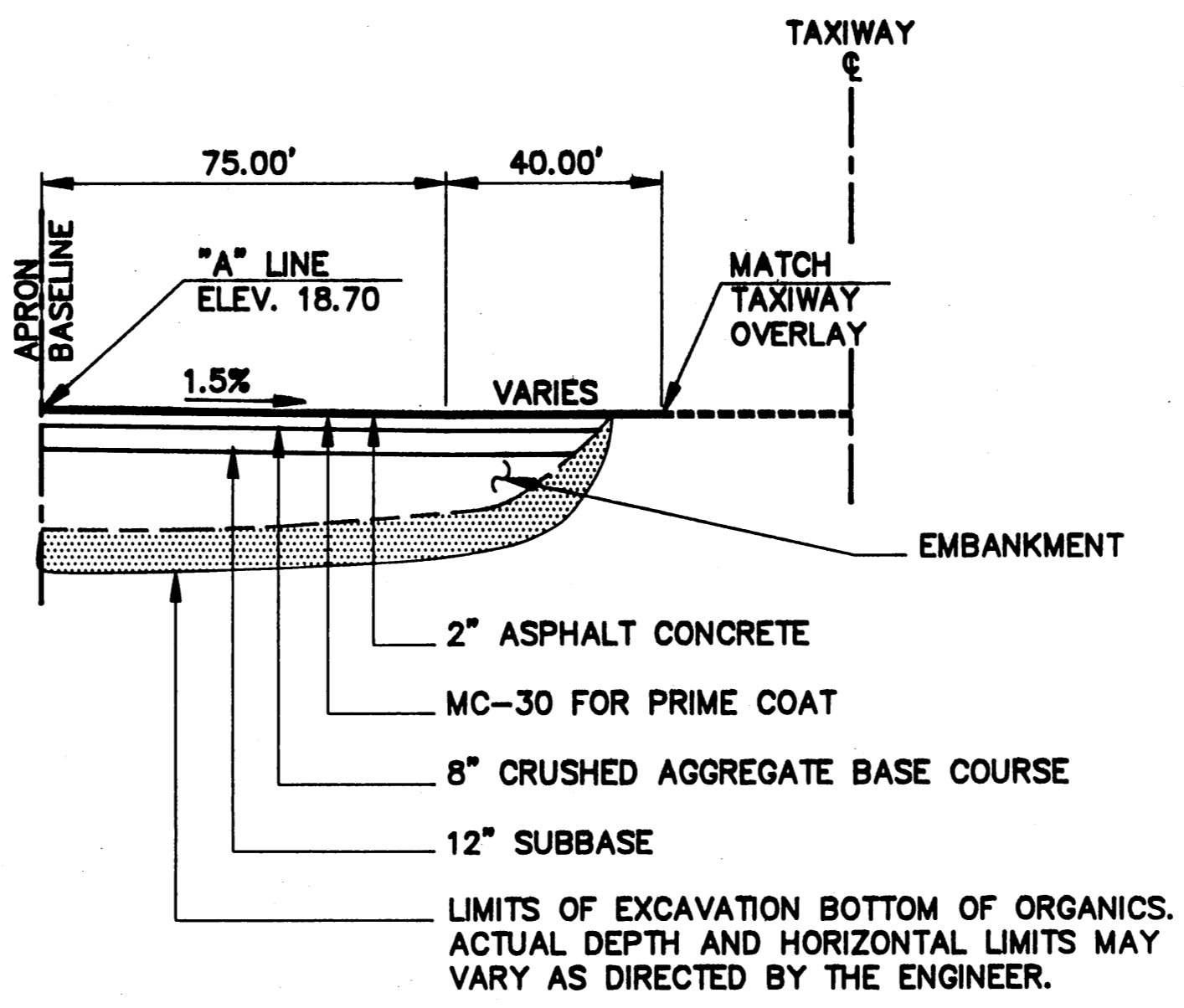
APRON TYPICAL SECTION
"A" 10+00, LT. TO "A" 14+20, LT.



APRON TYPICAL SECTION
"A" 14+20, LT. TO "A" 19+51, LT.



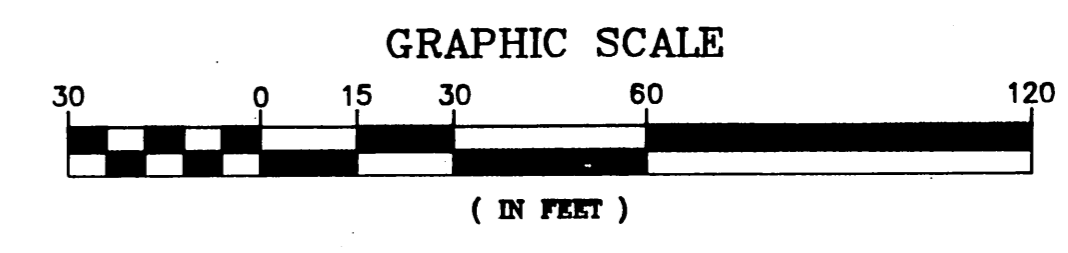
APRON TYPICAL SECTION
"A" 19+51, LT. TO "A" 21+00, LT.



APRON TYPICAL SECTION
"A" 10+00, RT. TO "A" 21+00, RT.

NOTES :

1. ACTUAL LIMITS OF ASPHALT CONCRETE, PRIME COAT AND CRUSHED AGGREGATE BASE COURSE VARY. SEE APRON PLANS ON SHEET 12 FOR PAVING LIMITS.
2. TRANSITIONS BETWEEN TYPICALS SHALL BE 100 FEET.
3. EXCAVATION OF THE EXISTING TAXIWAY AND APRON IS NOT REQUIRED FOR OBTAINING FULL DEPTH STRUCTURAL SECTION. BLEND NEW MATERIAL WITH EXISTING WHERE MATCHING INTO EXISTING STRUCTURAL SECTION.



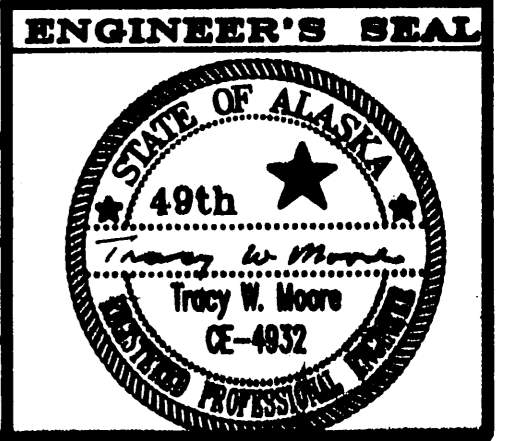
AS-BUILT
B.A. 2-9-96

BY:	DATE:	DESCRIPTION OF CHANGE:

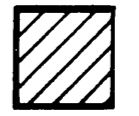



STATE OF ALASKA
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SOUTHEAST REGION DESIGN & CONSTRUCTION

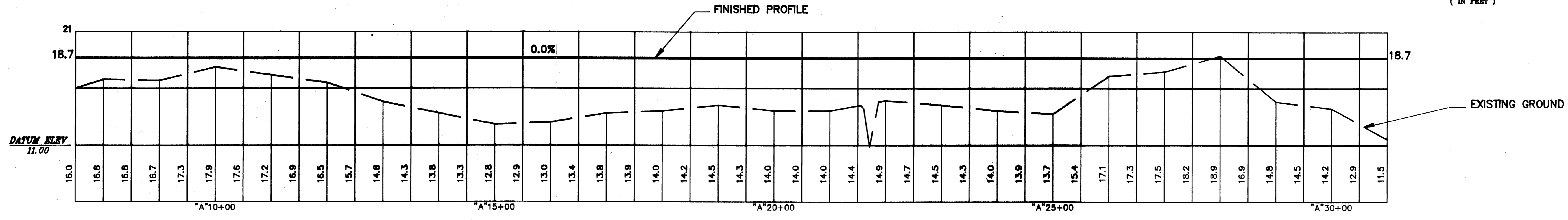
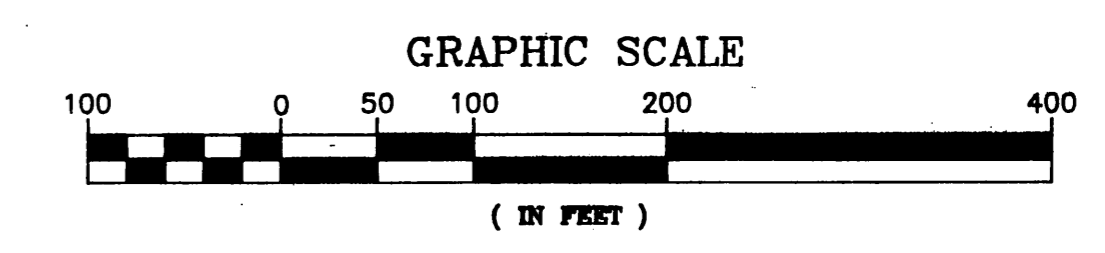
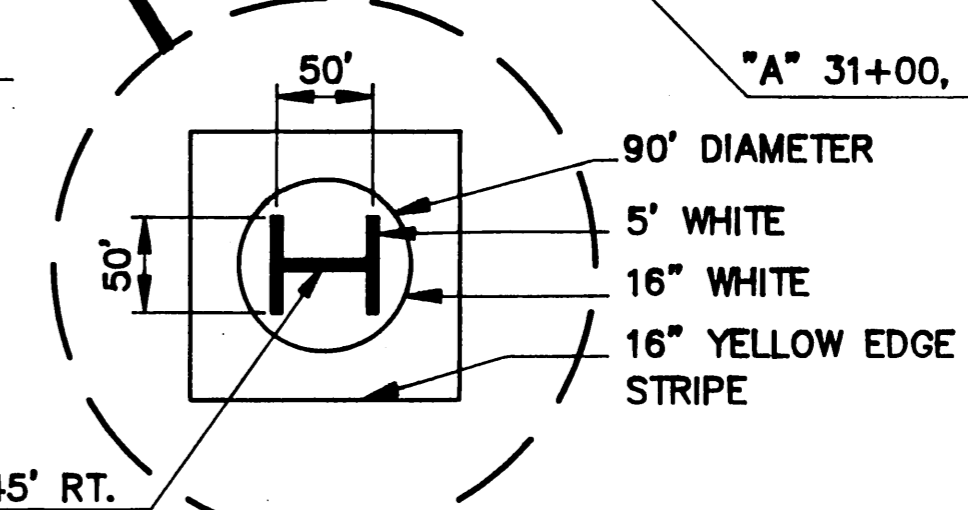
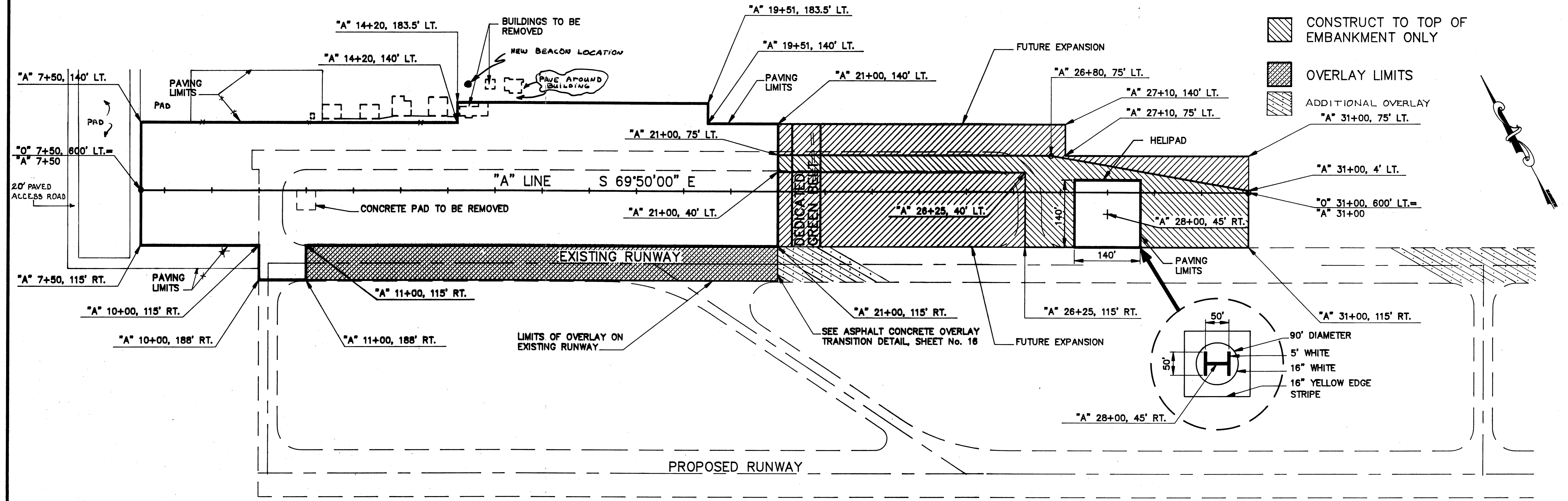
HAINES AIRPORT
APRON TYPICAL SECTIONS

DESIGNED BY: C. HAKARI	PROJECT No. e9523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: T.W. MOORE	SHEET 11 OF 39



LEGEND :

-  FUTURE EXPANSION
-  CONSTRUCT TO TOP OF EMBANKMENT ONLY
-  OVERLAY LIMITS
-  ADDITIONAL OVERLAY "A" 31+00, 75' LT.



AS-BUILT
 B.A. 2-9-96

BY:	DATE:	DESCRIPTION OF CHANGE:

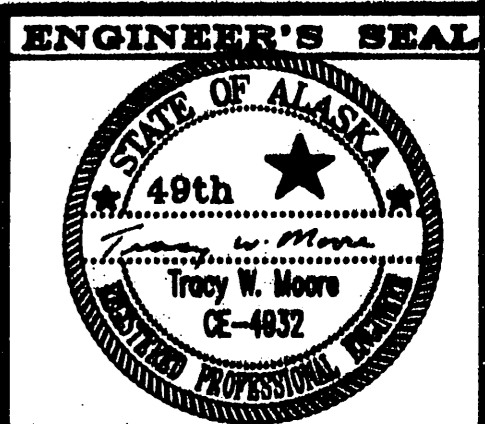
RECORD OF REVISIONS

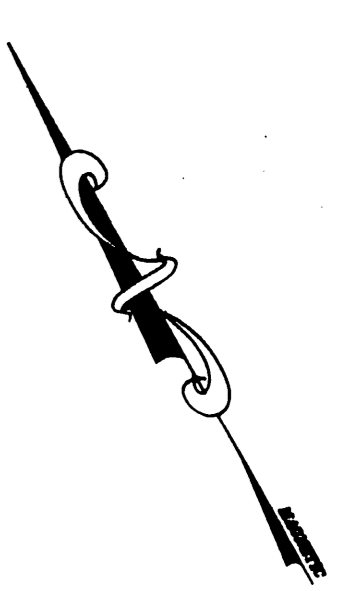
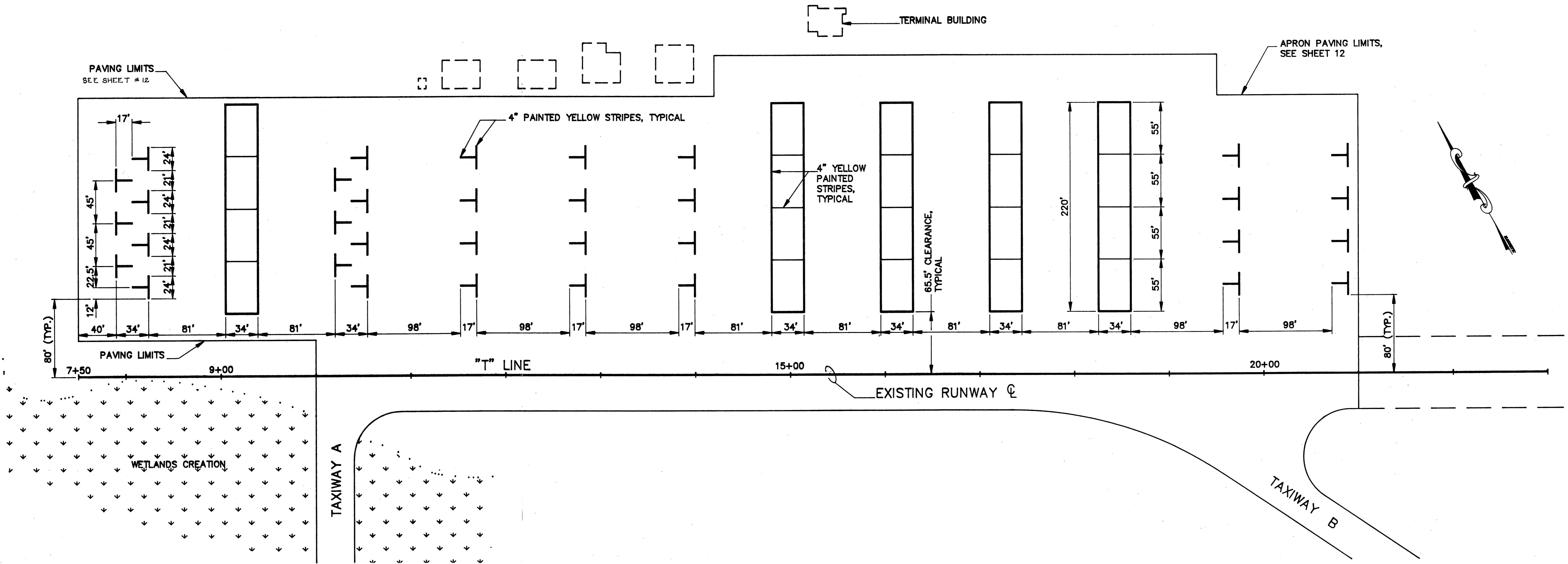
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

**HAINES AIRPORT
 APRON PLAN AND PROFILE**

DESIGNED BY: C. HAKARI
 DRAWN BY: AutoCAD / B.W.B.
 CHECKED BY: C. HAKARI

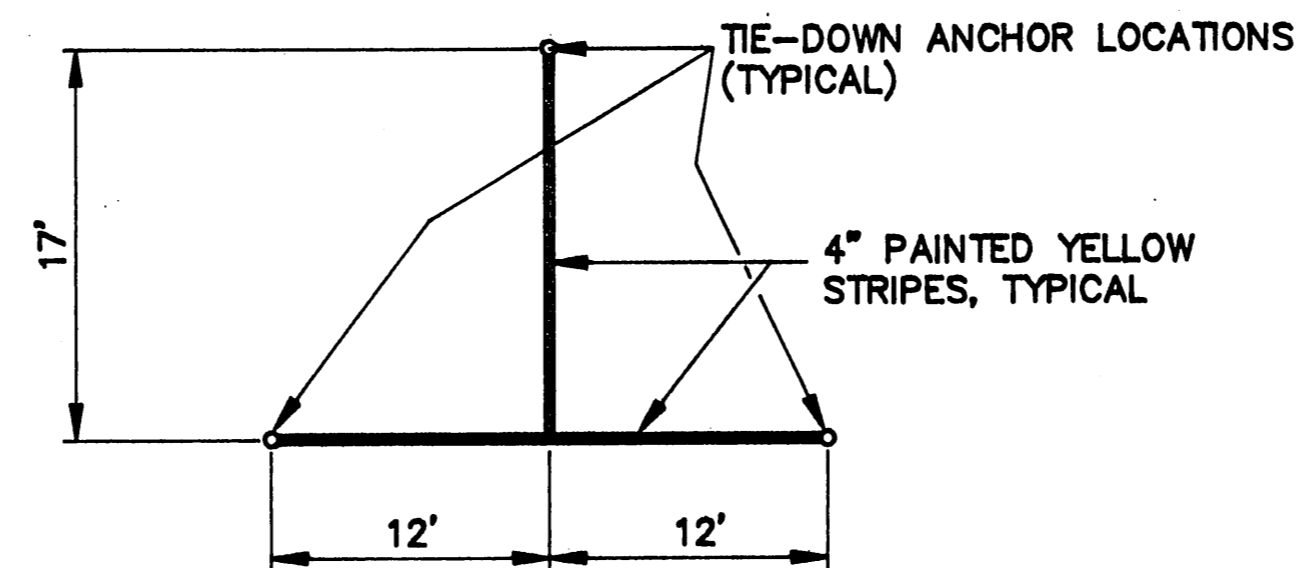
PROJECT No. 69623
 DATE: AUGUST 1990
 SHEET 12 OF 39



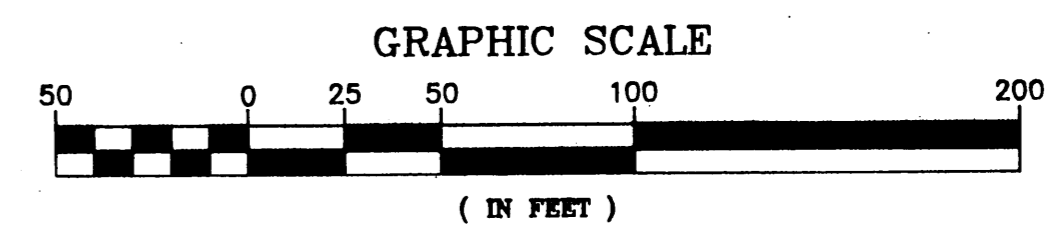


NOTES :

1. ALL LARGE AIR TAXI PARKING SPACES SHALL BE 34'x55'. NO TIE-DOWNS WILL BE PROVIDED.
2. ALL PARKING AND TIE-DOWN SPACES SHALL BE DELINEATED WITH 4 INCH YELLOW STRIPES.
3. CONTROL FOR THE TIE-DOWN PLAN SHALL BE THE TAXIWAY CENTERLINE, STATION "T" 7+90.



TIE-DOWN TYPICAL



AS-BUILT
B.P. 2-9-96

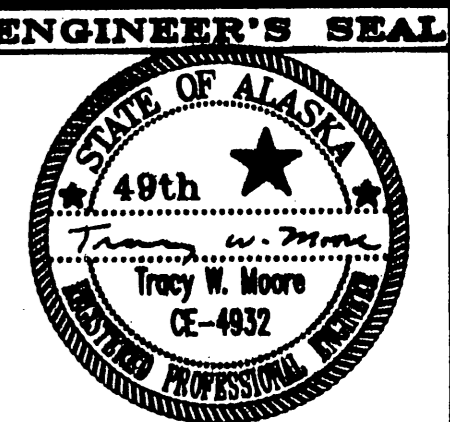
BY:	DATE:	DESCRIPTION OF CHANGE:

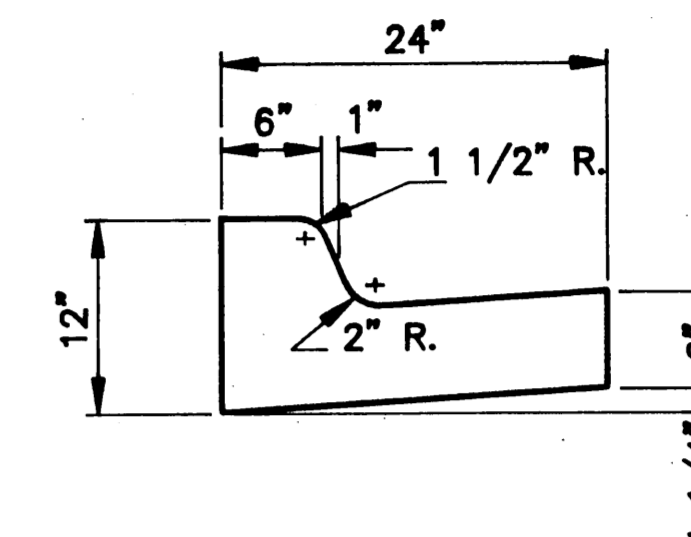
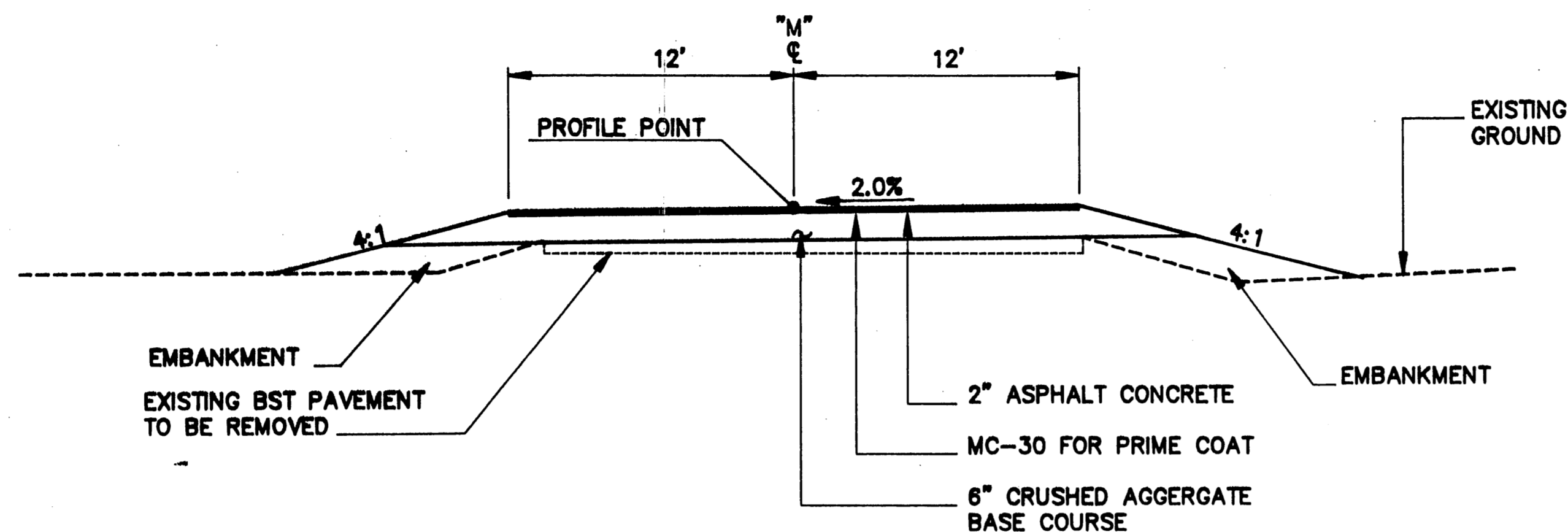
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

**HAINES AIRPORT
AIRPORT TIE-DOWN PLAN**

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 13 OF 39

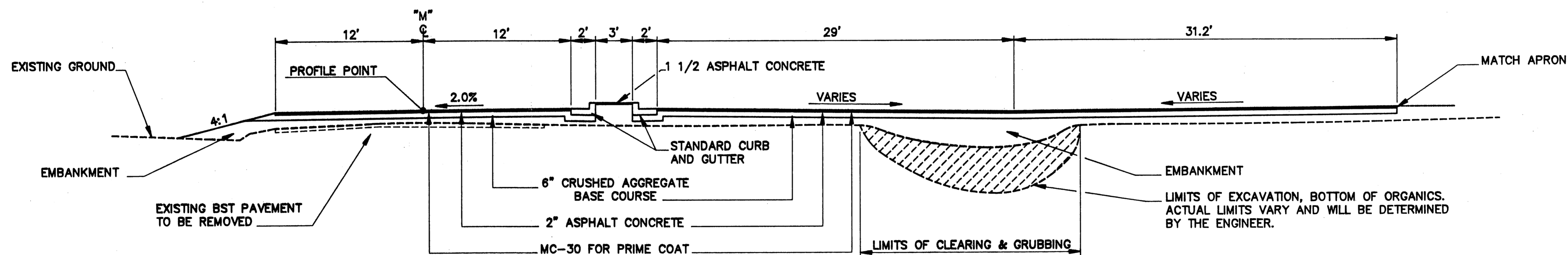




TERMINAL ACCESS ROAD

STANDARD CURB & GUTTER

"M" 13+20 TO "M" 15+80
 "M" 19+51 TO "M" 20+31
 HAINES HWY TO "M" 20+31 (OVERLAY EXISTING
 "M" T HANGAR TO "M" 13+20 (BST WITH 2" ASPHALT)



TERMINAL ACCESS ROAD & PARKING AREA TYPICAL

"M" 15+80 TO "M" 19+51

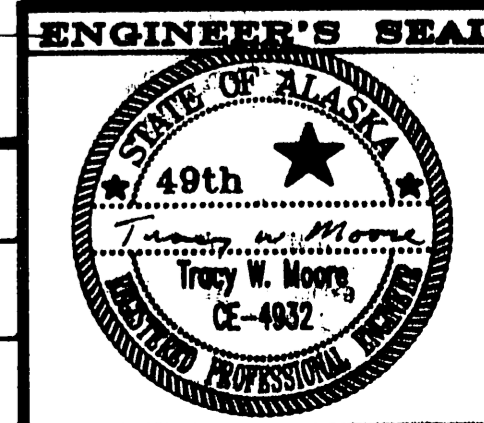
AS-BUILT
 B.A. 2-9-96

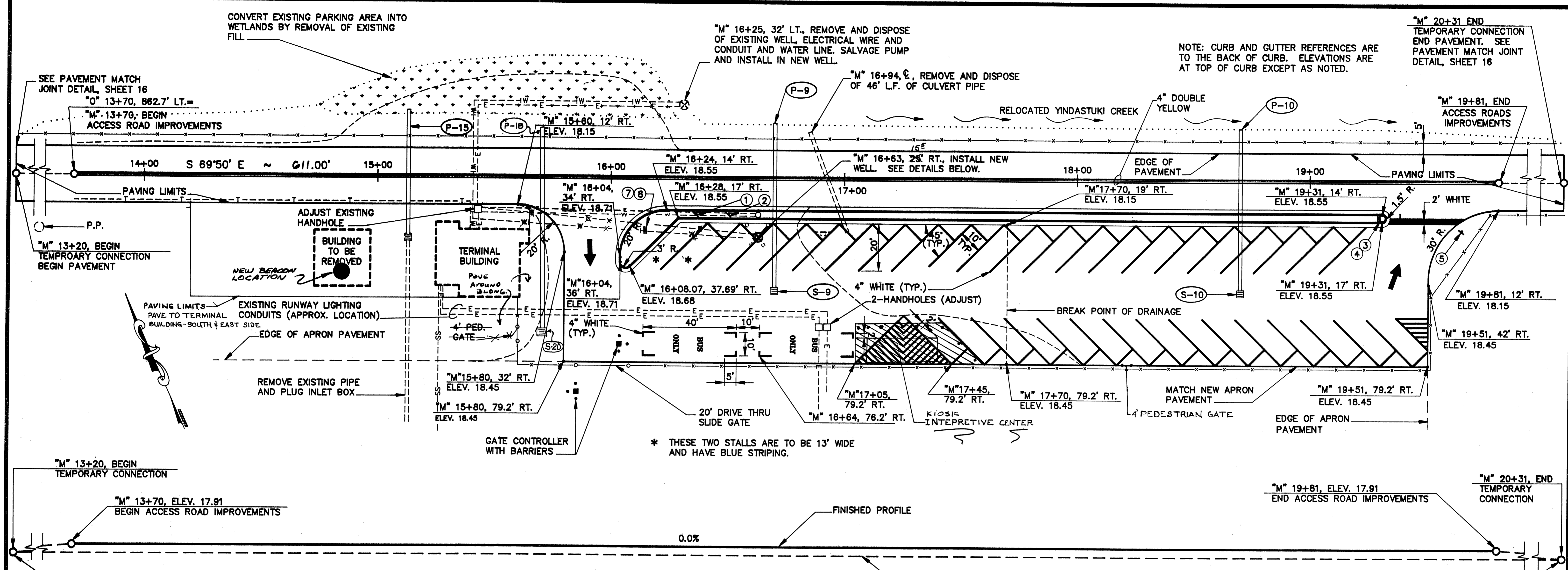
BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
 PARKING TYPICAL SECTIONS

DESIGNED BY: C. HAKARI	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: T.W. MOORE	SHEET 14 OF 39

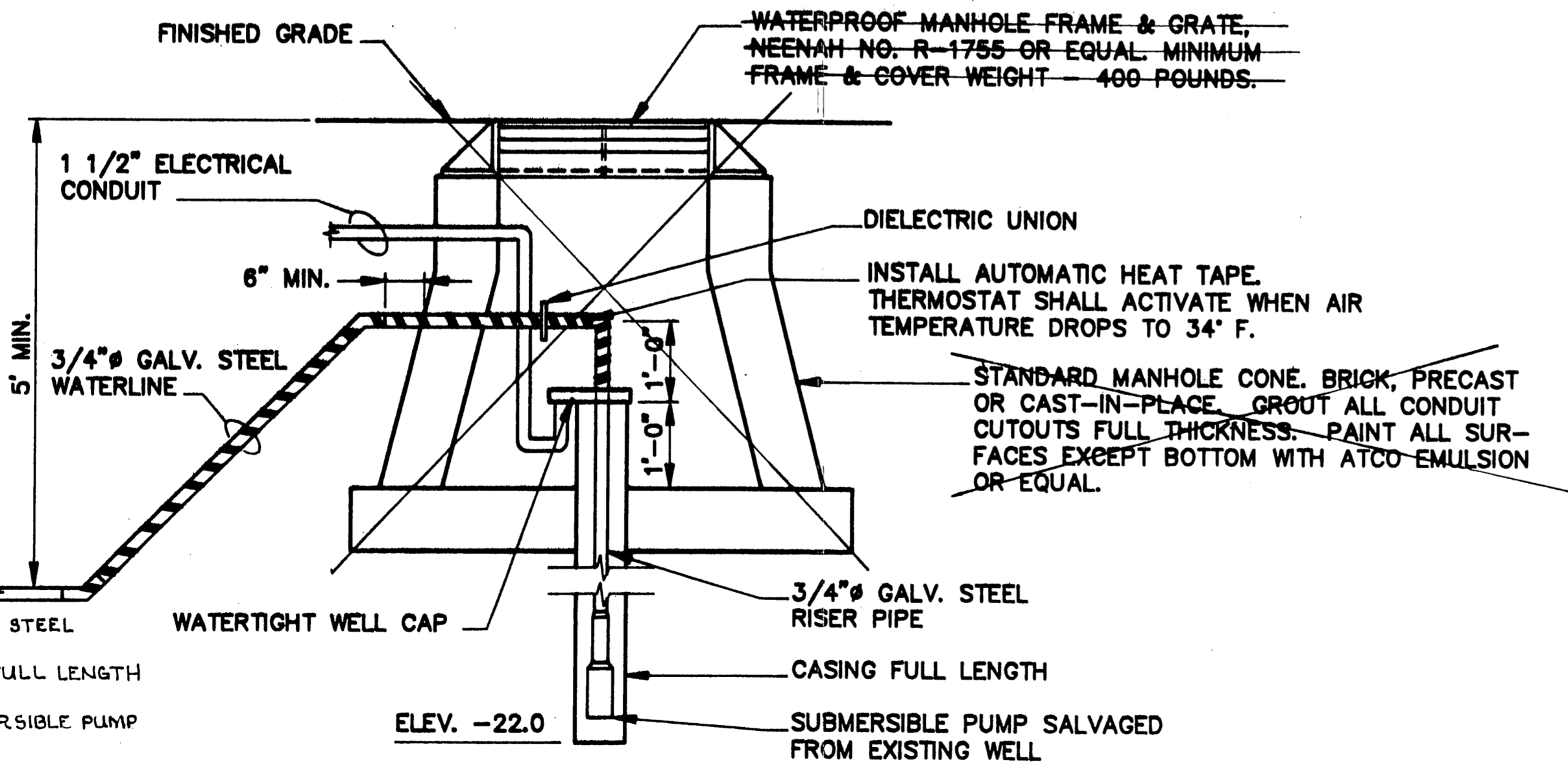




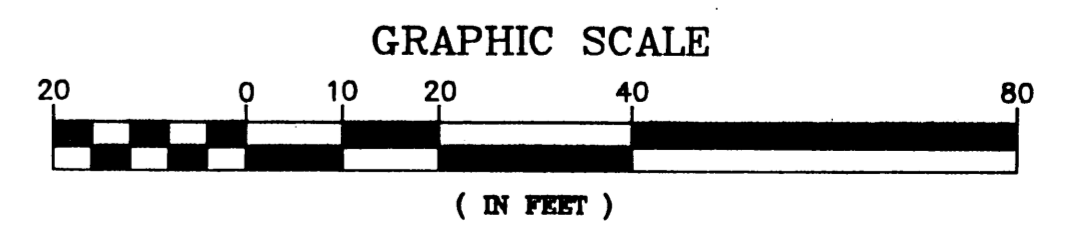
NOTE: CURB AND GUTTER REFERENCES ARE TO THE BACK OF CURB. ELEVATIONS ARE AT TOP OF CURB EXCEPT AS NOTED.

"M" 20+31 END TEMPORARY CONNECTION END PAVEMENT. SEE PAVEMENT MATCH JOINT DETAIL, SHEET 16

SIGN SUMMARY								
No.	Station	Code No.	Legend	Size	Area S.F.	P t	Facing Traffic	Remarks
1	"M"16+35, 15.5' RT.	R7-8RL	Reserved Parking (Handicapped Symbol)	12"x18"	1.5	1	E.B.	
2	"M"16+49, 15.5' RT.	R7-8RL	Reserved Parking (Handicapped Symbol)	12"x18"	1.5	1	E.B.	
3	"M"19+30, 15.5' RT.	R6-1R	ONE WAY	12"x36"	3.0	1	W.B.	
4	"M"19+30, 15.5' RT.	R6-1L	ONE WAY	12"x36"	3.0	1	E.B.	
5	"M"19+65, 22' RT.	R1-1	STOP	24"x24"	4.0	1	N.B.	
6	"S"10+40, 24' LT.	R1-1	STOP	24"x24"	4.0	1	N.B.	
7	"M"16+15, 25' RT.	R6-1R	ONE WAY	12"x36"	3.0	1	E.B.	
8	"M"16+15, 25' RT.	R6-1L	ONE WAY	12"x36"	3.0	1	W.B.	



NEW WELL DETAIL
"M" 16+63, 25' RT.



BY:	DATE:	DESCRIPTION OF CHANGE:

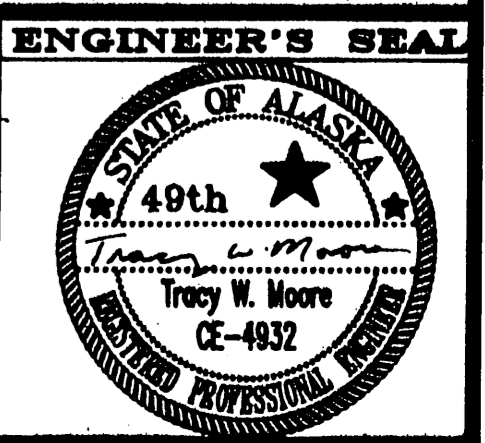
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

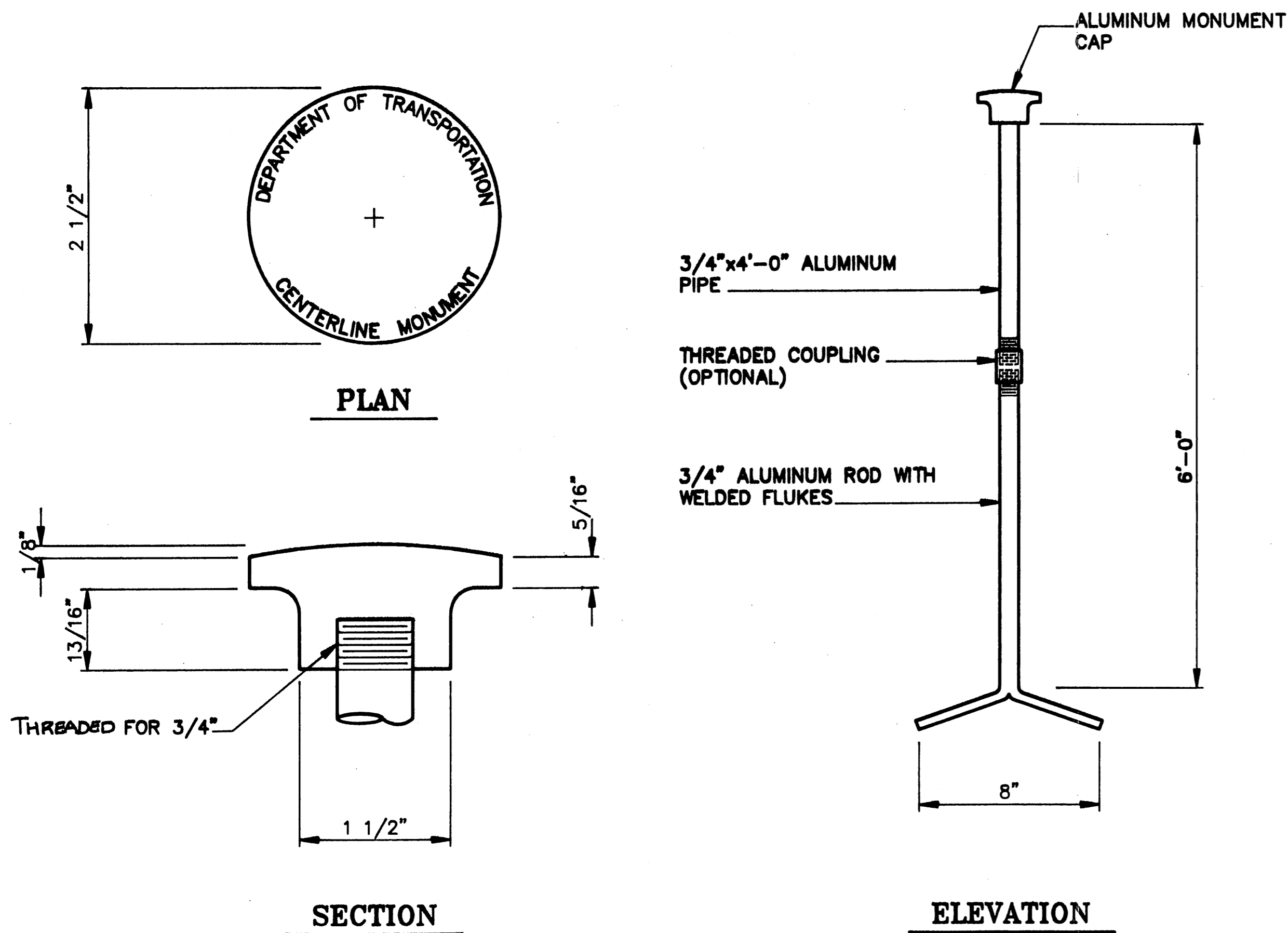
HAINES AIRPORT
PARKING LAYOUT

DESIGNED BY:
C. HAKARI
DRAWN BY:
AutoCAD / B.W.B.
CHECKED BY:
T.W. MOORE

PROJECT No.
69523
DATE:
AUGUST 1990
SHEET 15 OF 39

175-BUILT
B.A. 2-12-96



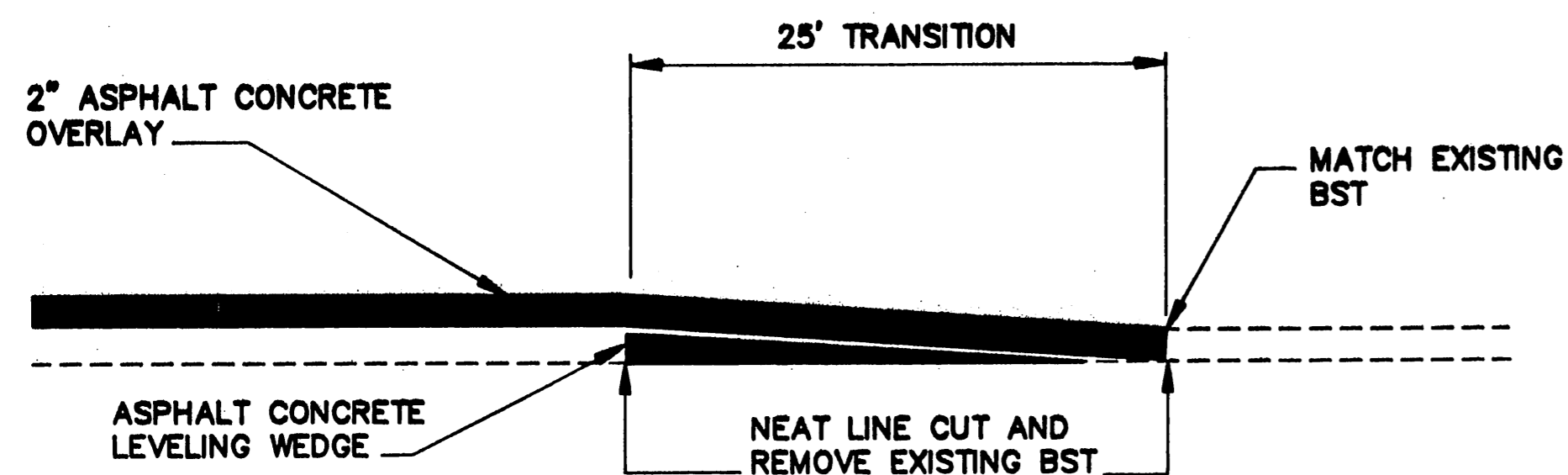


MONUMENT DETAIL

N.T.S.

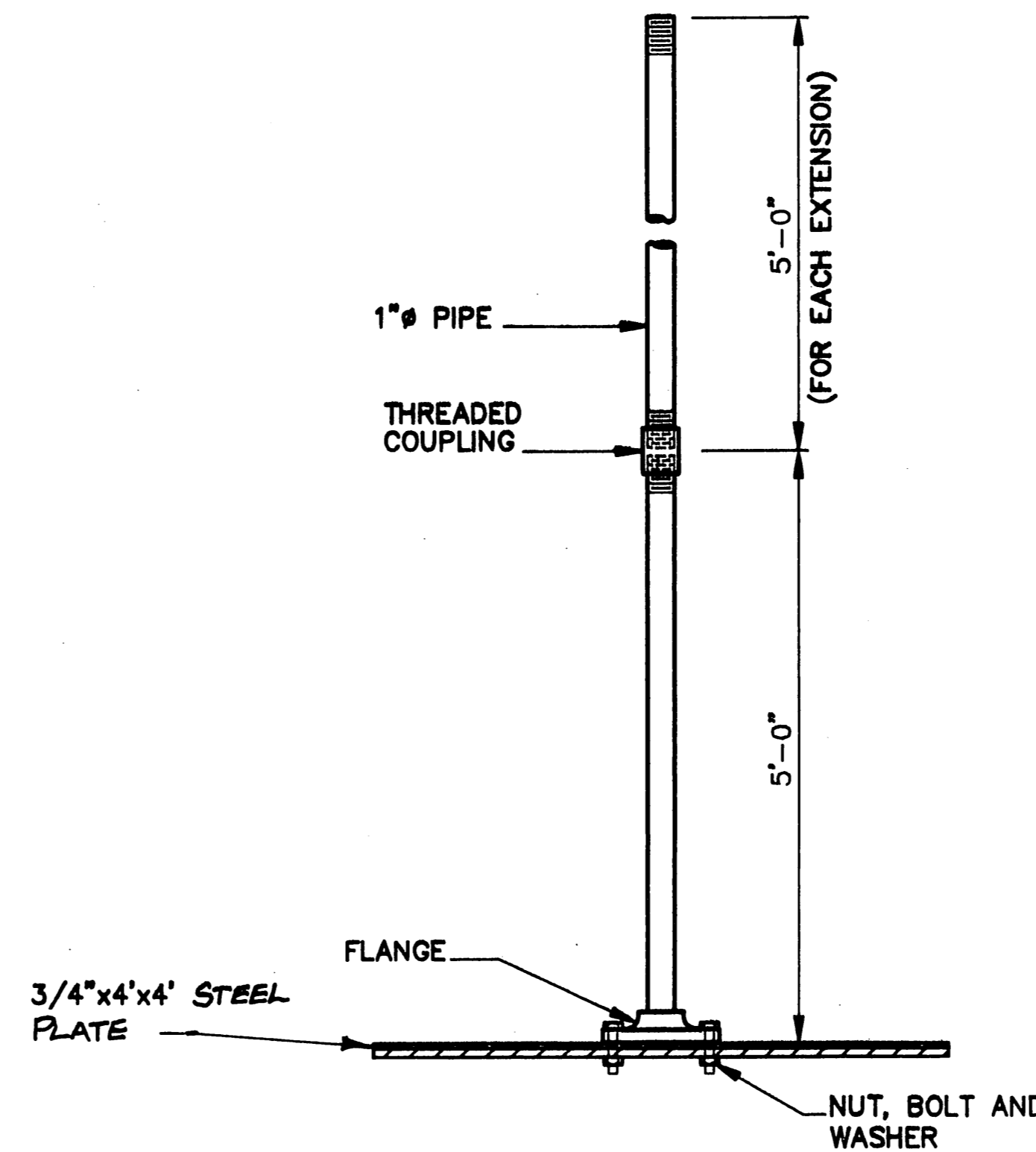
MONUMENT DETAIL NOTES:

1. MONUMENT SHALL BE PLACED PRIOR TO PAVING AND COVERED TO PROTECT SURFACE. FINAL POSITIONING AND POINT STAMPING SHALL BE ACCOMPLISHED AFTER PAVEMENT HAS BEEN PLACED AND COMPACTED.
2. MONUMENTS SHALL BE PLACED FLUSH WITH THE FINISHED SURFACE.



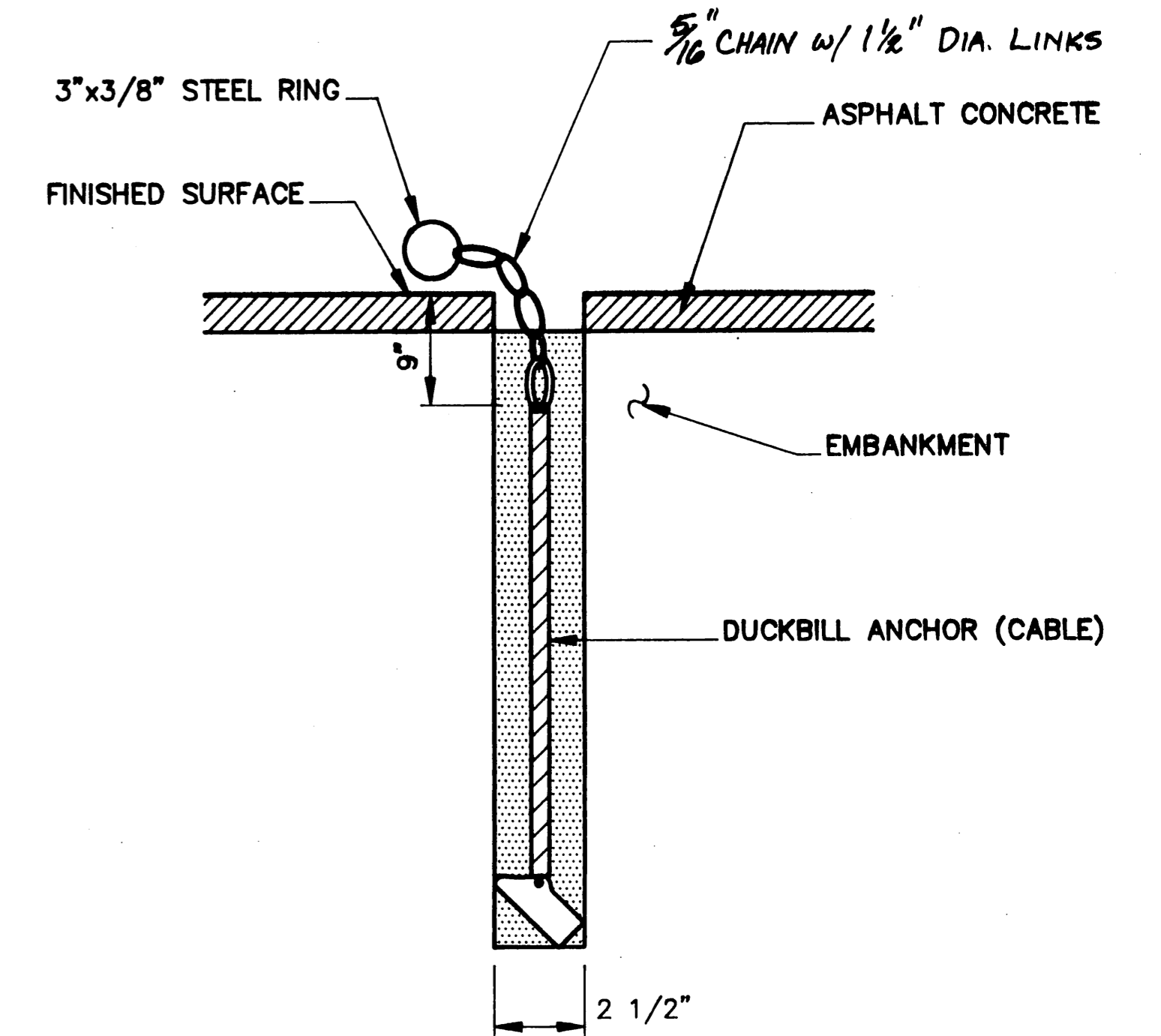
ASPHALT CONCRETE OVERLAY TRANSITION DETAIL

N.T.S.



SETTLEMENT PLATFORM DETAIL

N.T.S.

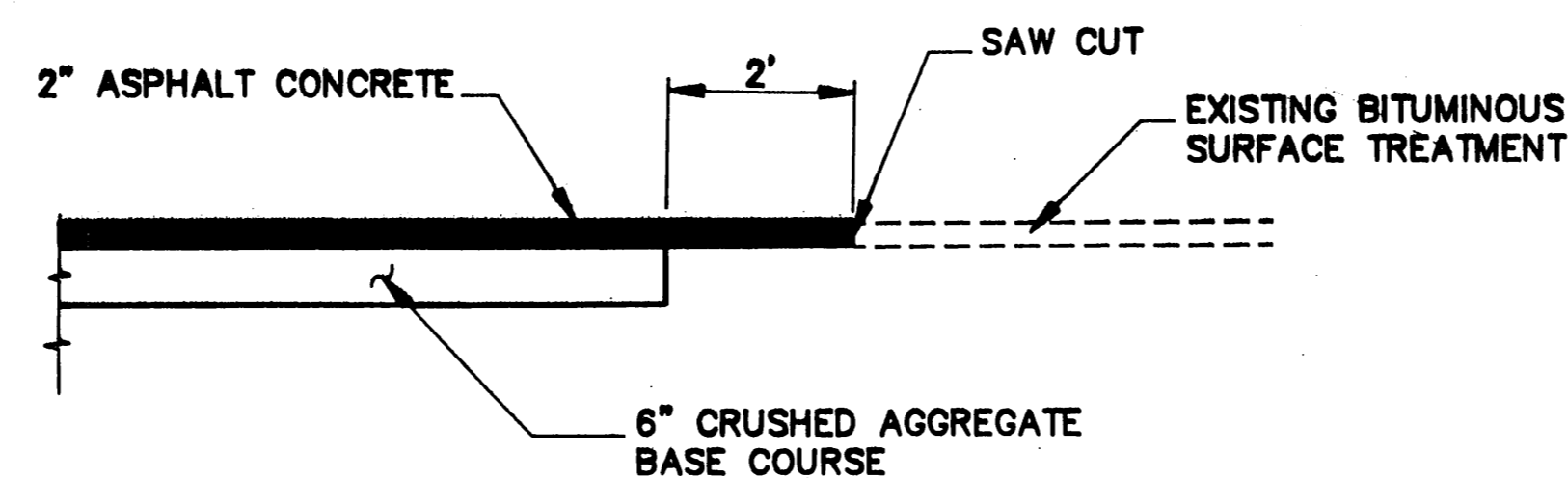


TIE-DOWN ANCHOR DETAIL

N.T.S.

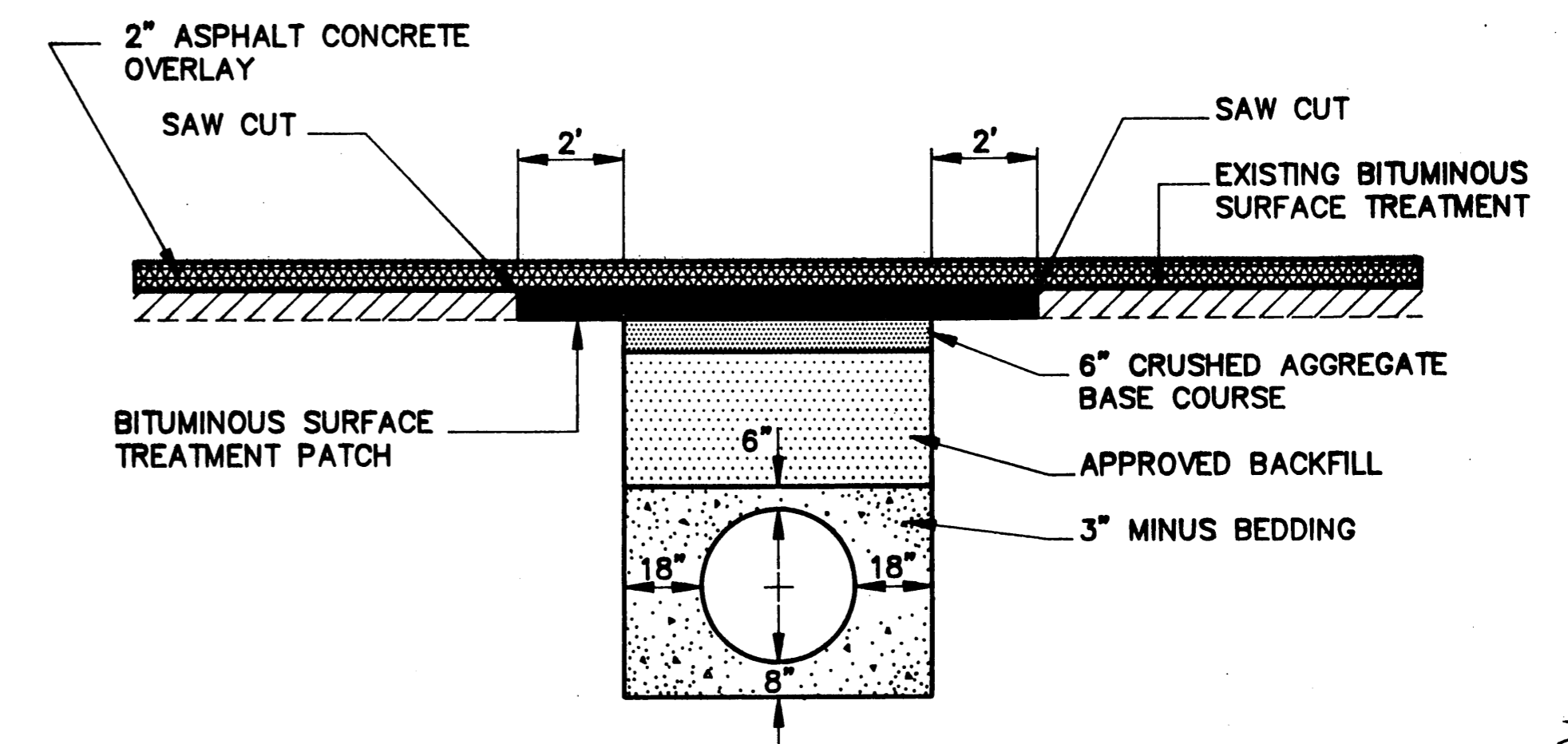
TIE-DOWN ANCHOR NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF MATERIAL IN THE TIE-DOWNS.
2. DEPTH OF ANCHOR SHALL BE AS REQUIRED TO DEVELOP 5000 LBS. OF PULL-OUT STRENGTH PER ANCHOR.
3. WHEN ROCK IS ENCOUNTERED, ROCK ANCHORS SHALL BE USED. ROD DIAMETER SHALL BE 3/4".
4. ALL EYE-BOLTS SHALL BE ASTM A-36, 40,000 P.S.I. MINIMUM YIELD STRENGTH.



PAVEMENT MATCH JOINT DETAIL

N.T.S.



CULVERT BEDDING & PAVEMENT PATCH DETAIL

N.T.S.

AS-BUILT
 B.A. 2-12-96

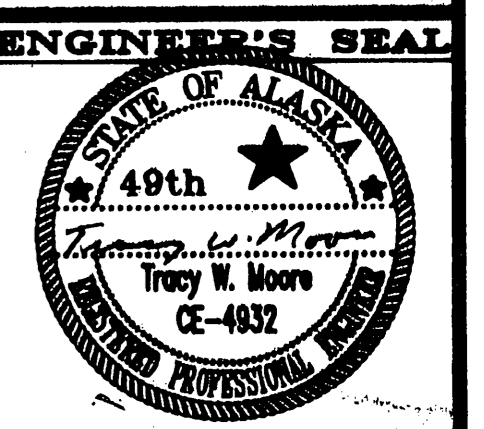
BY:	DATE:	DESCRIPTION OF CHANGE:

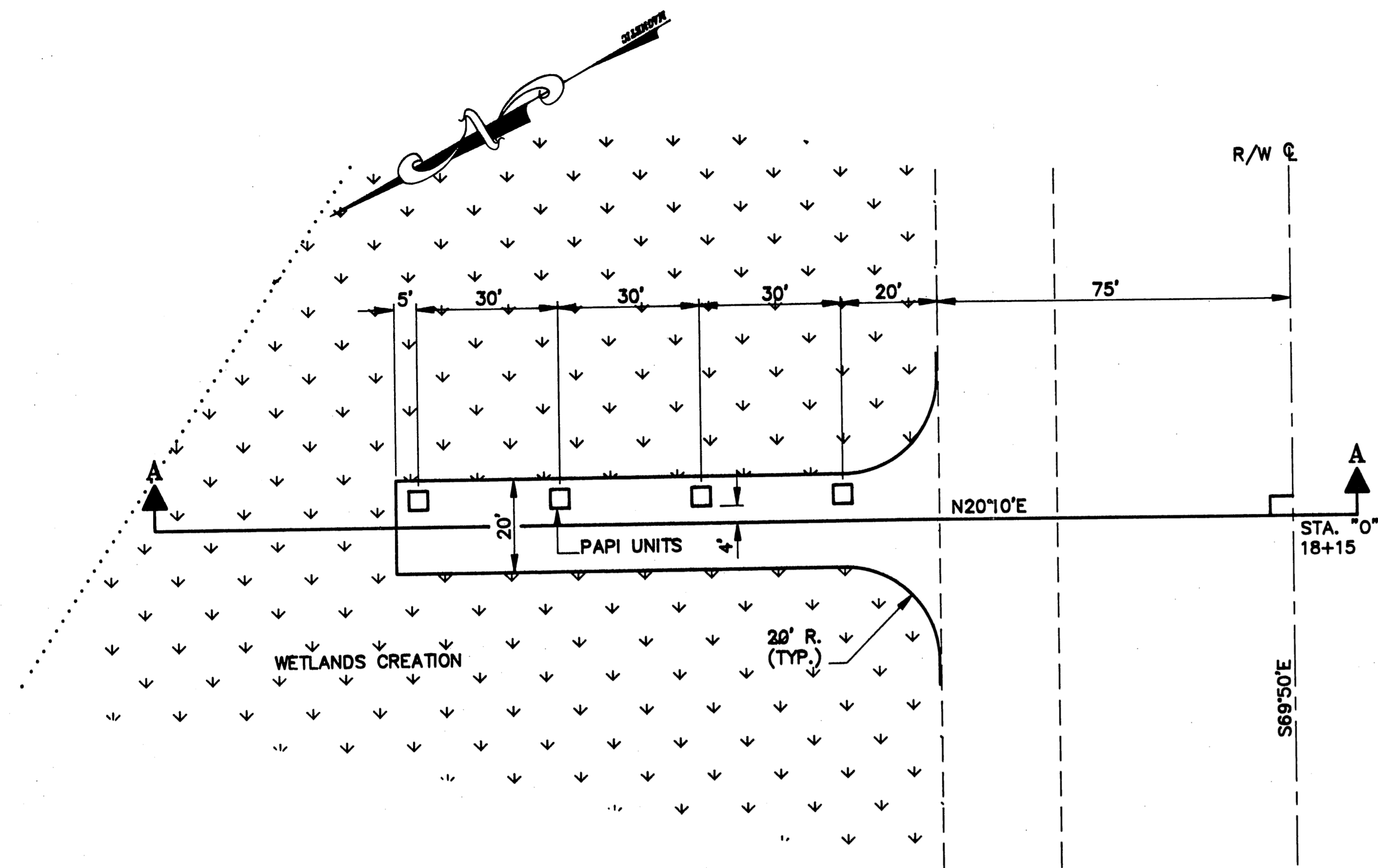
RECORD OF REVISIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

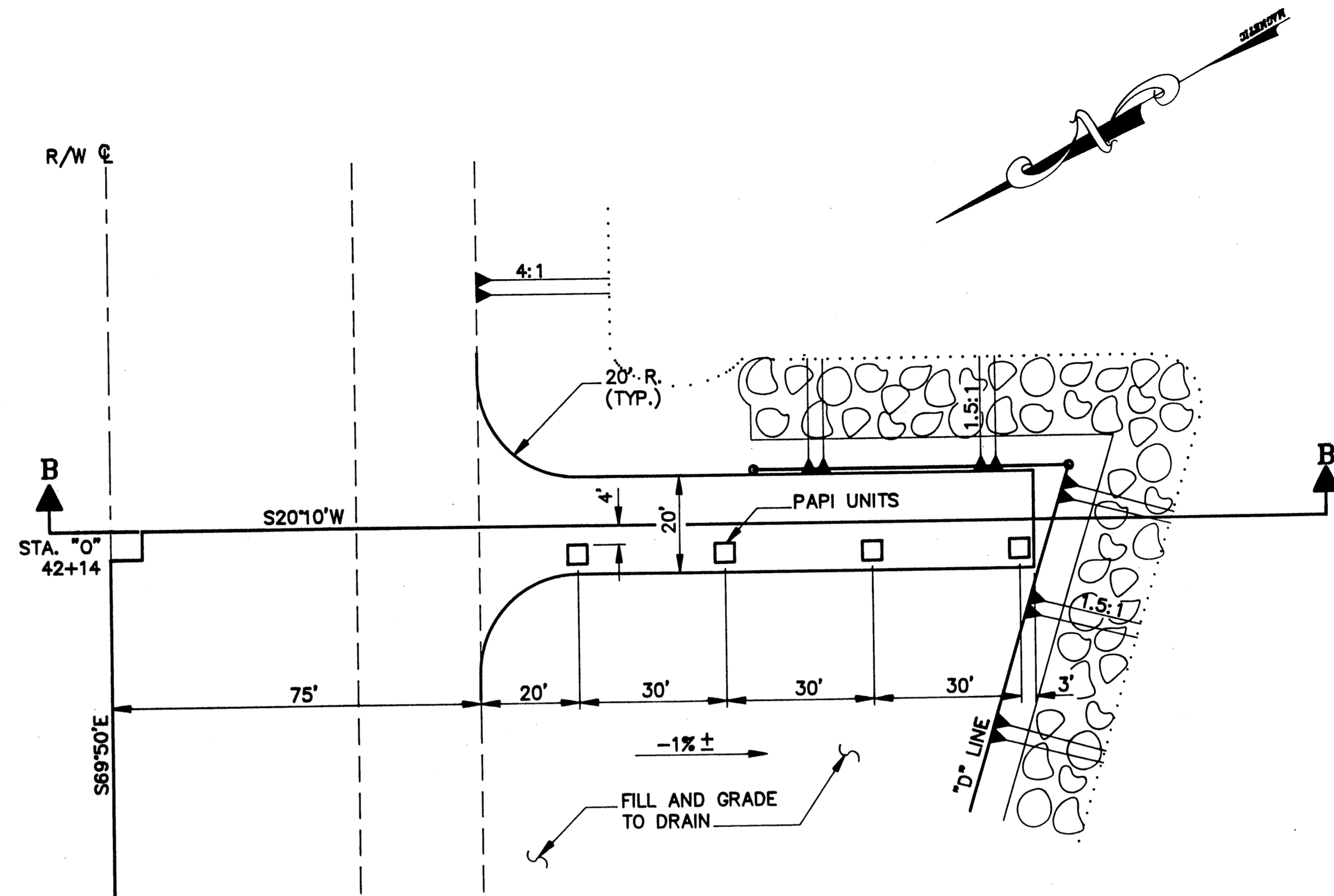
HAINES AIRPORT
 MISCELLANEOUS DETAILS

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 16 OF 39

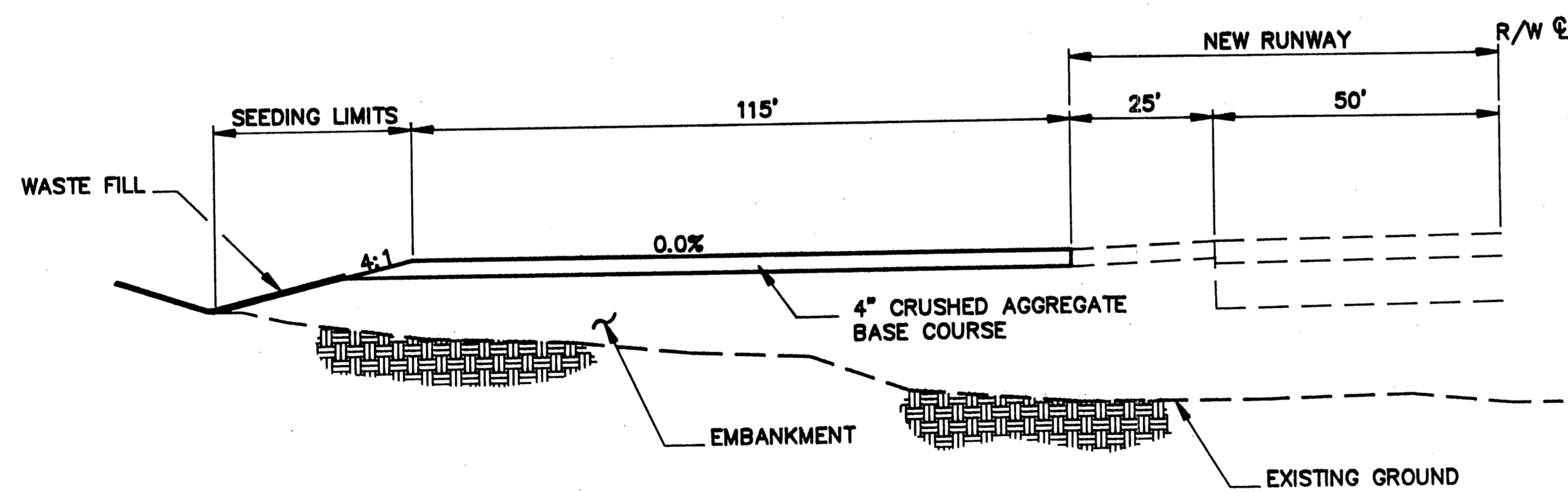




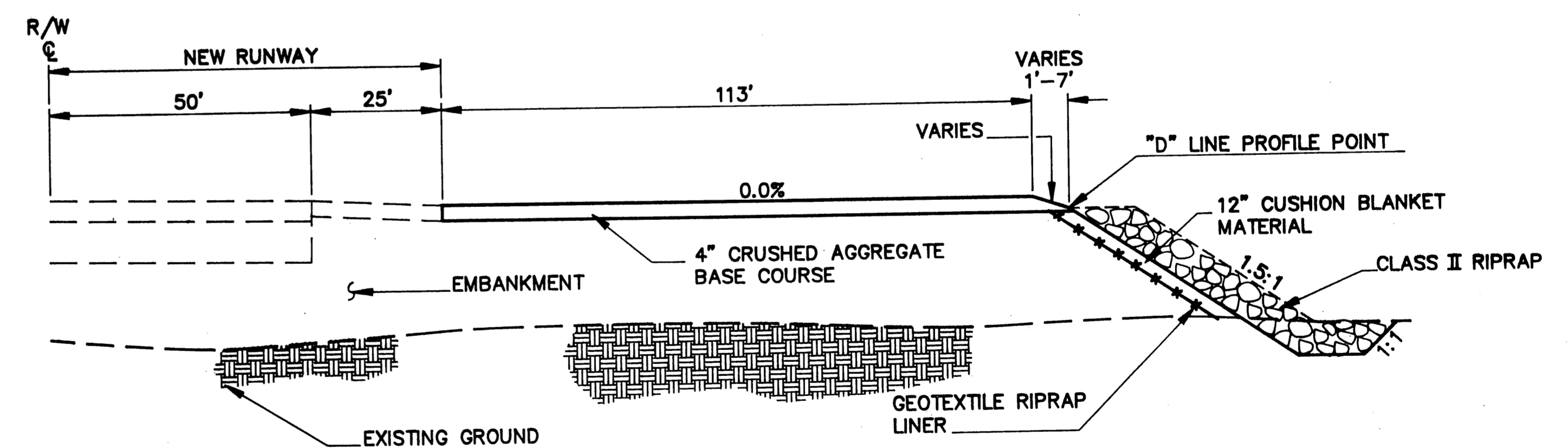
PAPI PAD PLAN
STA. "O" 18+15, LT.



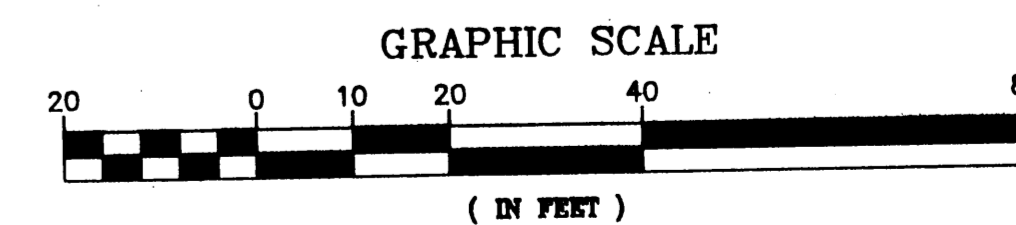
PAPI PAD PLAN
STA. "O" 42+14, RT.



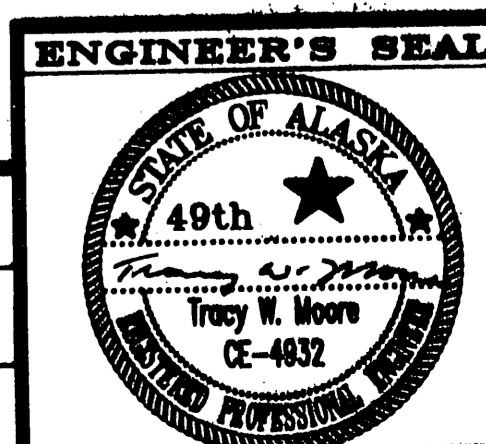
SECTION A-A
STA. "O" 18+15, LT.



SECTION B-B
STA. "O" 42+14, RT.



A.S. BUILT
B.F. 2-12-96

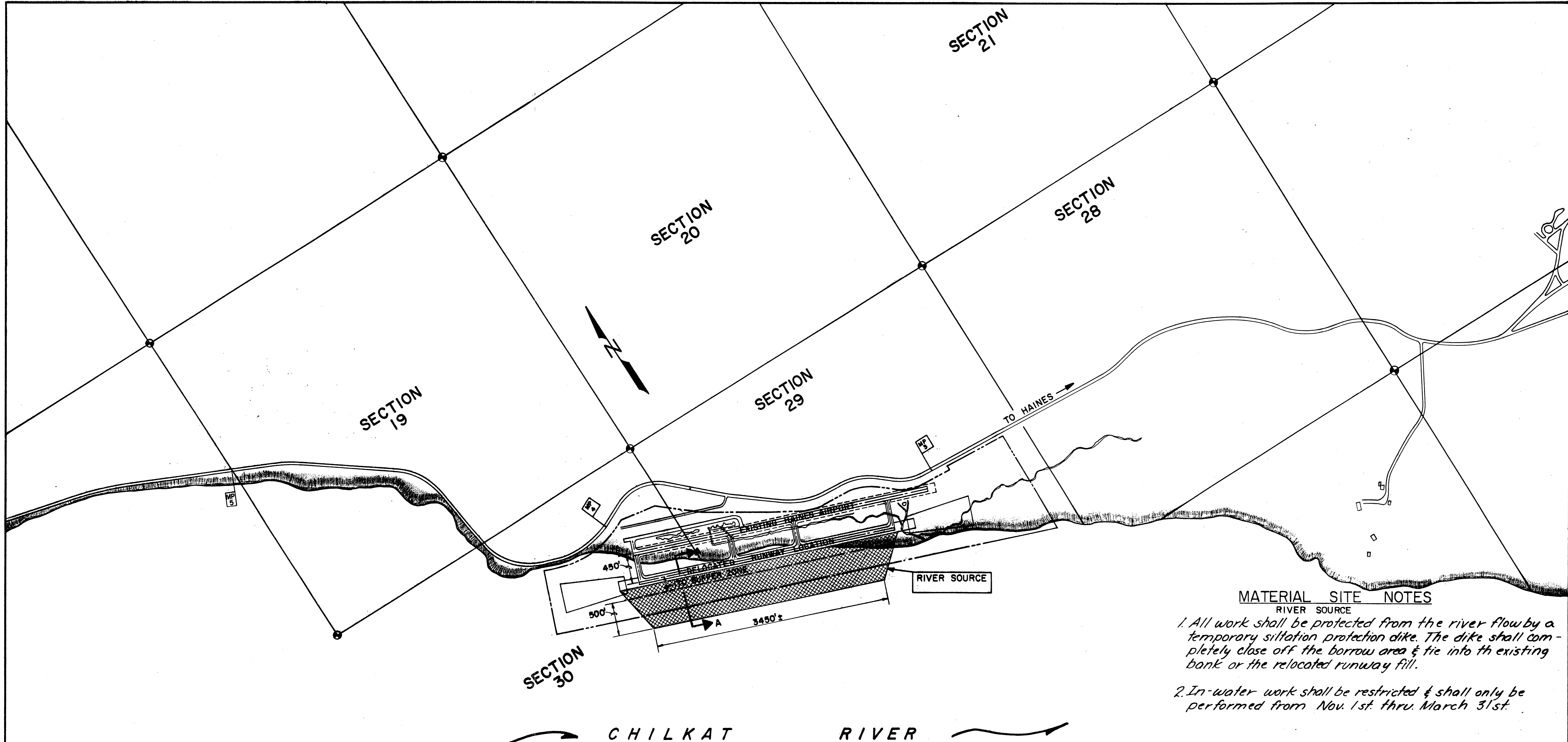


BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

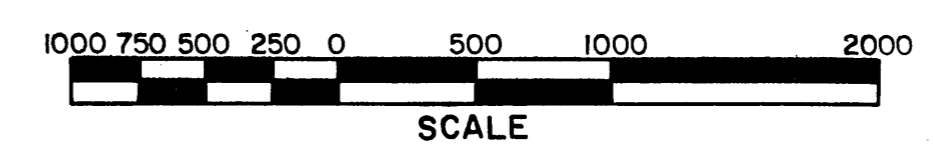
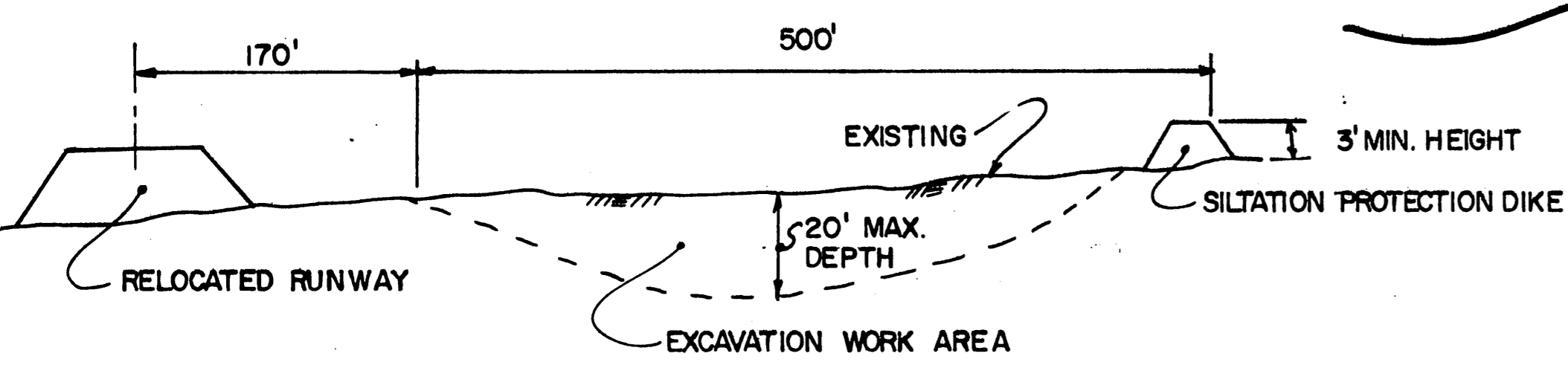
HAINES AIRPORT
PAPI PAD DETAILS

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 17 OF 39



MATERIAL SITE NOTES

- RIVER SOURCE
1. All work shall be protected from the river flow by a temporary siltation protection dike. The dike shall completely close off the borrow area & tie into the existing bank or the relocated runway fill.
 2. In-water work shall be restricted & shall only be performed from Nov. 1st. thru March 31st.
 3. The temporary dike shall be constructed of river sands & be entirely free of ice chunks & large organics such as tree trunks or stumps.



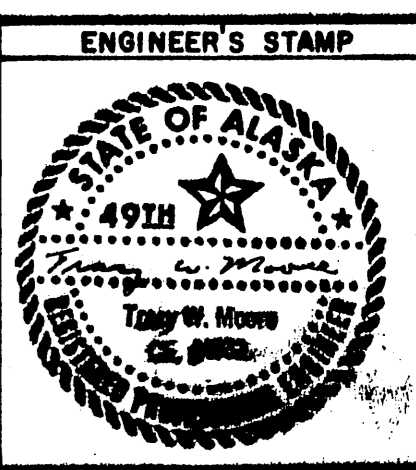
BY	DATE	DESCRIPTION OF CHANGE
RECORD OF REVISIONS		

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
 MATERIAL SITES

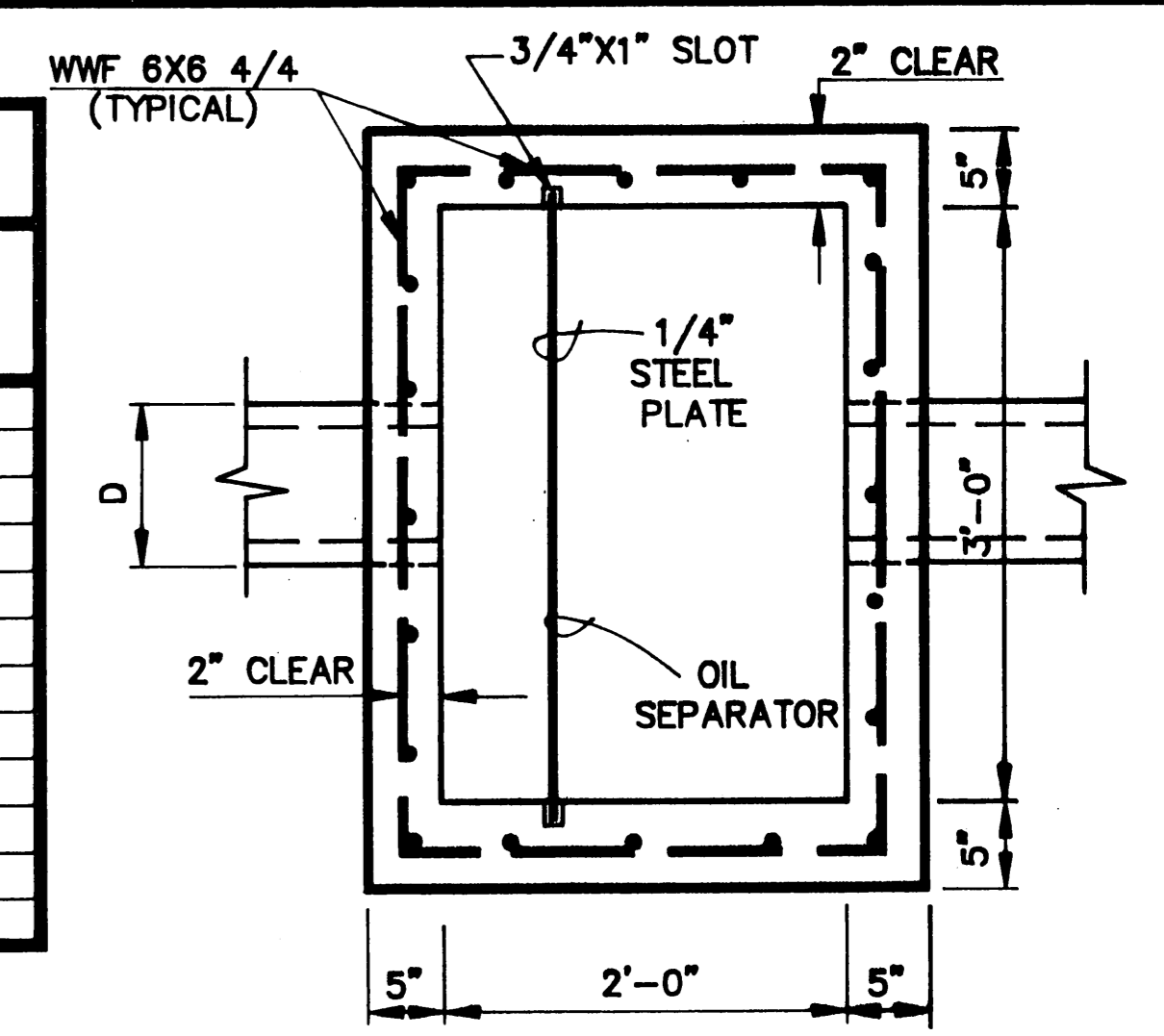
APPROVED BY:	DESIGNED BY:	SCALE:
DESIGN GROUP CHIEF	T.M.	1" = 700' ±
RECOMMENDED BY:	DRAWN BY:	DATE:
DESIGN ENGINEER, GROUP	R.S.	
PREPARED BY:	CHECKED BY:	
PROJECT MANAGER	C.H.	
	LEAD DESIGNER	

SHEET 18 OF 39



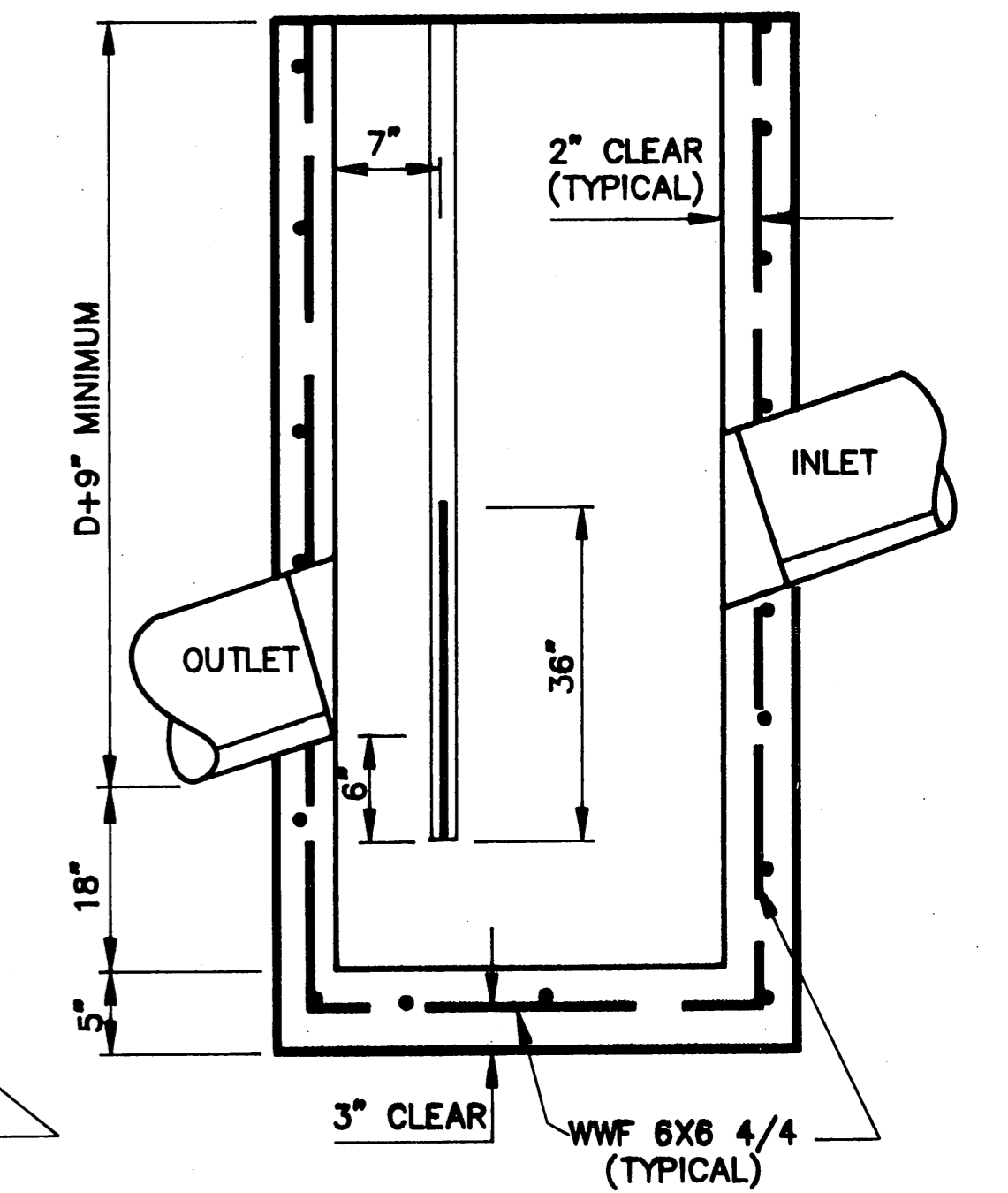
PIPE SUMMARY									
PIPE	FROM	TO	LENGTH				INVERT		REMARKS
			18"	24"	48"	60"	Inlet	Outlet	
P-1	S-1	S-2	196' ¹⁹³				14.30	13.80	
P-2	S-2	"A"12+50, 235' RT.		160'			13.30	12.90	
P-3	S-3	S-4	196' ¹⁹³				14.90	13.80	
P-4	S-4	"A"15+00, 235' RT.		180' ¹⁶¹			13.30	12.90	
P-5	S-5	S-6	196' ¹⁹³				14.90	13.80	
P-6	S-6	"A"18+05, 235' RT.		160' ¹⁹³			13.30	12.90	
P-7	S-7	"A"18+60, 260' RT.		250'			13.30	12.90	
P-8	S-8	"A"9+60, 160' RT.		90' ¹¹⁰			13.30	12.90	
P-9	S-9	"M"16+70, 25' LT.		82' ⁷⁴			15.35	15.00	
P-10	S-10	"M"18+70, 24' LT.		78' ⁷²			15.35	15.00	
P-11	"M"14+03, 26' LT.	"A"13+50, 55' RT.			120' ¹⁵⁰				
P-12	"M"12+30				260'				SKEW 34' LEFT AHEAD
P-13	"M"13+20				150' ¹²⁰				INVERTS TO BE 1'-FOOT BELOW EXIST. STREAM BED
P-14	"M"12+15				150' ¹²⁰				INVERTS TO BE 1'-FOOT BELOW EXIST. STREAM BED
P-15	"M"15+13, 24' LT.		50' ⁵²			14.58	14.00		CONNECT TO EXISTING STRUCTURE AT "M"18+13 RT. CONNECTION INCIDENTAL
P-16	"M"20+46				60' ⁸⁰				SKEW 45' RT. AHEAD
P-17	"M"31+80				90' ¹⁰⁰				
P-18	S-20	"M"15+76, 25' LT.			87'	14.14	13.92		
P-19	S-21	"M"12+75, 30' LT.			60'	14.50	14.37		

STRUCTURE SUMMARY				
STRUCTURE NO.	STATION	TYPE	TOP OF GRATE ELEVATION	REMARKS
S-1	"A"12+50, 120' LT.	A	16.80	
S-2	"A"12+50, 75' RT.	A	17.47	
S-3	"A"15+00, 120' LT.	A	17.40	
S-4	"A"15+00, 75' RT.	A	17.47	
S-5	"A"17+50, 120' LT.	A	17.40	
S-6	"A"17+50, 75' RT.	A	17.47	
S-7	"A"20+00, 75' RT.	A	17.47	
S-8	"A"10+00, 75' RT.	A	17.47	
S-9	"M"16+70, 48' RT.	A	17.85	
S-10	"M"18+70, 48' RT.	A	17.85	
S-20	"M"15+76, 62' RT.		17.03	
S-21	"M"12+75, 30' RT.		16.33	ELEVATION ~ TOP OF CONCRETE

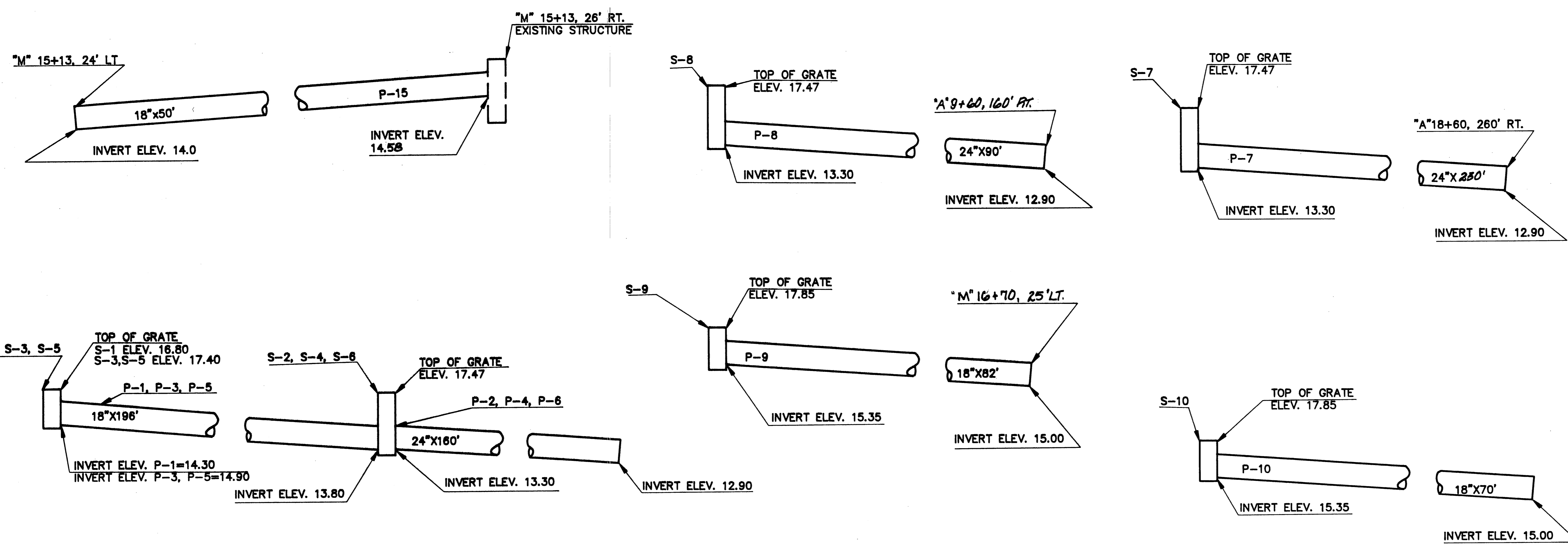


NOTES

- CAST IN PLACE CONCRETE INLET BOX SHALL BE CLASS "W" CONCRETE.
- CONCRETE INLET BOX DEPTH AND LOCATION SHALL BE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- INLETS SHALL HAVE 18" SUMP.
- CONCRETE INLET BOX SHALL BE PARALLEL TO APRON CENTERLINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- INLET FRAME AND GRATE SHALL BE AIRPORT APPROVED; NEENAH R-3475 OR APPROVED EQUAL.



**TYPE "A"
INLET BOXES**



AS-BUILT
B.A. 2-12-96

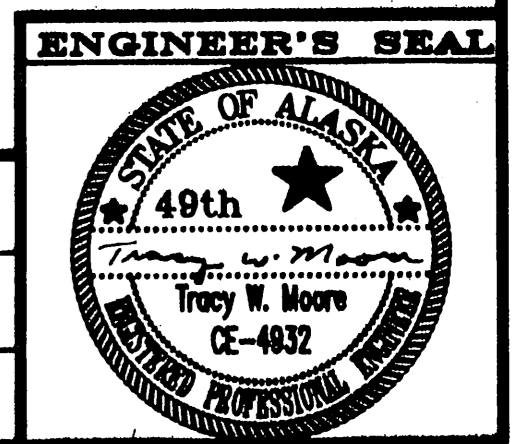
BY:	DATE:	DESCRIPTION OF CHANGE:

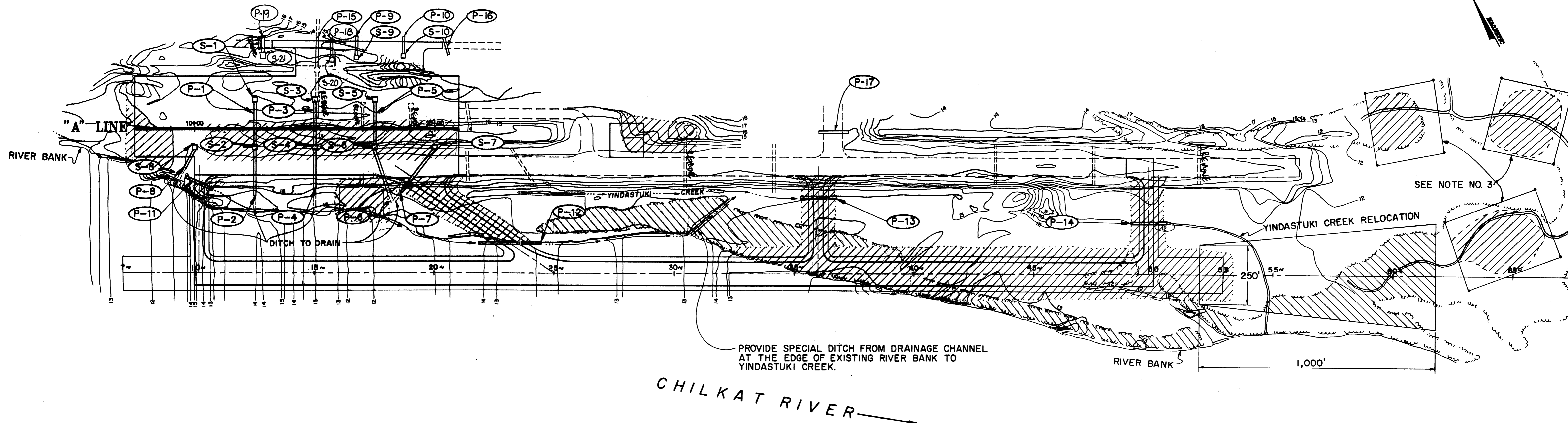
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

**HAINES AIRPORT
DRAINAGE DETAILS**

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AUTOCADD/CSA	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 19 of 39



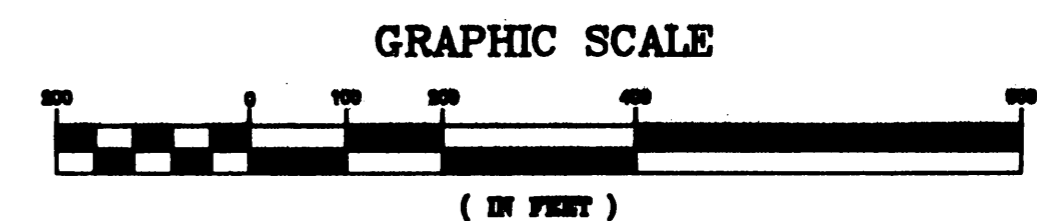


- TREE LINE.
- CLEARING.
- CLEARING IN EXCAVATION & EMBANKMENT AREAS.
- SEE SHEET 18 FOR PIPE AND STRUCTURE DIMENSIONS AND LOCATIONS.

NOTES :

1. ALL EXISTING CMP CROSSING THE TAXIWAY AND APRON, THAT ARE NOT INTENDED TO REMAIN, SHALL BE REMOVED.
2. SPECIAL DITCHING TO DRAIN NEW C.M.P.'S WILL BE PAID FOR AS UNCLASSIFIED EXCAVATION.
3. CLEARING FOR FISHERY PONDS WILL BE LIMITED TO THE STAKED EXCAVATION AREAS AND WASTE BERMS. TWO SITES NOT SHOWN ON THIS SHEET.
4. FROM STA. 38+00 TO STA. 51+00 THE CLEARING SHALL EXTEND TO THE EDGE OF THE RIVER BANK.

AS-BUILT
B.P. 2-12-96



BY:	DATE:	DESCRIPTION OF CHANGE:

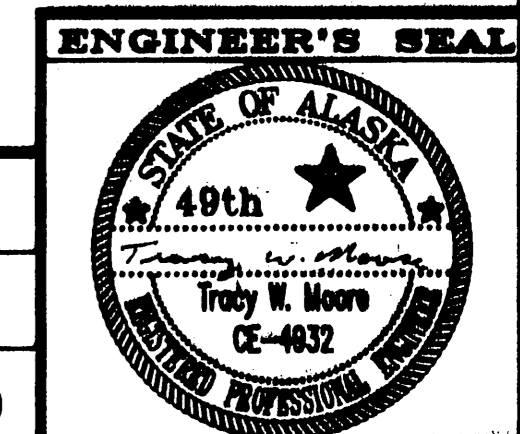
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
CLEARING AND DRAINAGE PLAN

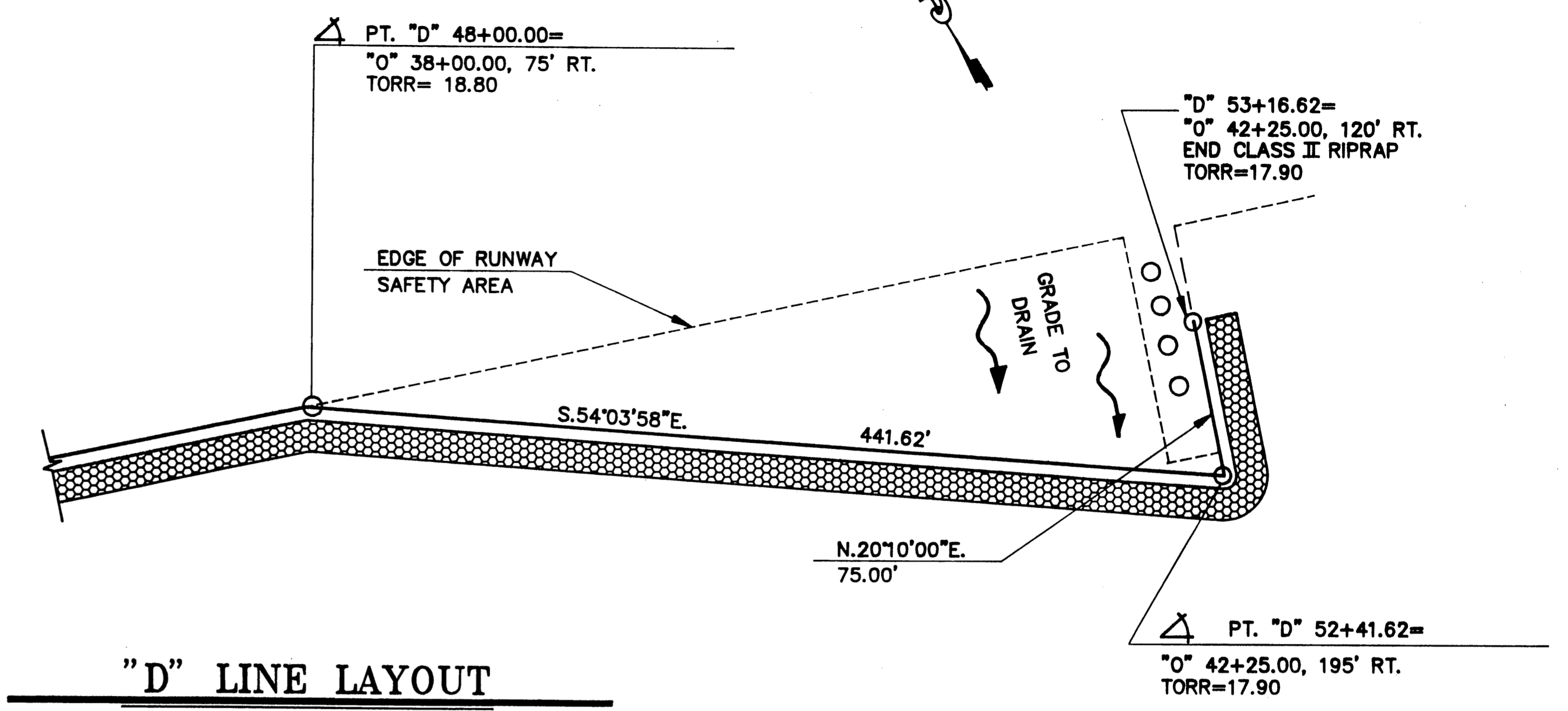
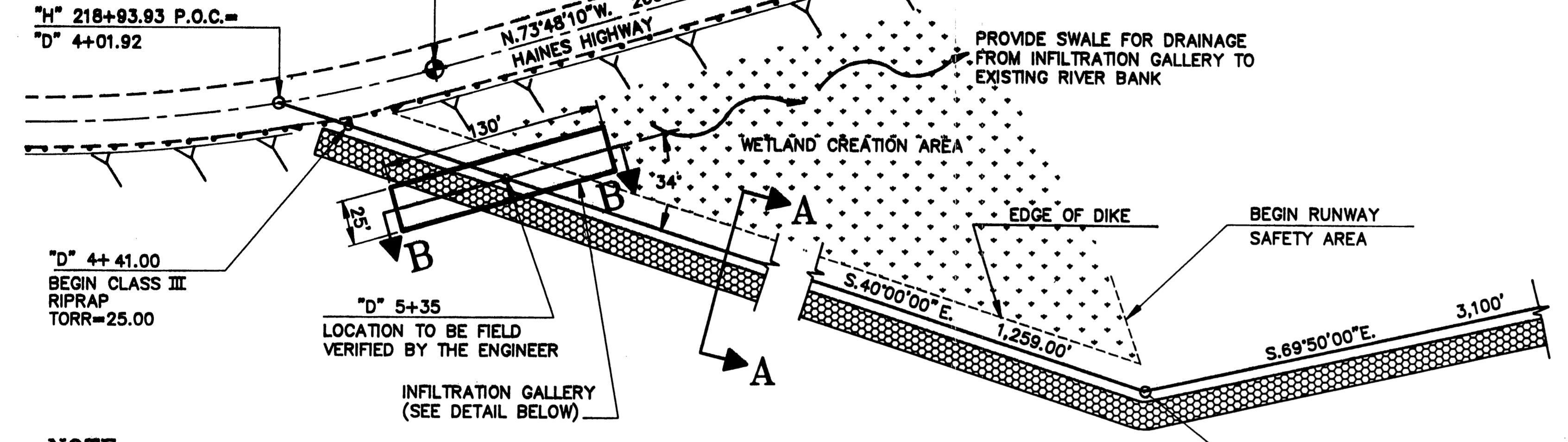
DESIGNED BY: C. HAKARI
DRAWN BY: B.A. AutoCAD / B.W.B.
CHECKED BY: C. HAKARI

PROJECT No. 69523
DATE: APRIL 1990
SHEET 20 of 39



"H" CURVE DATA

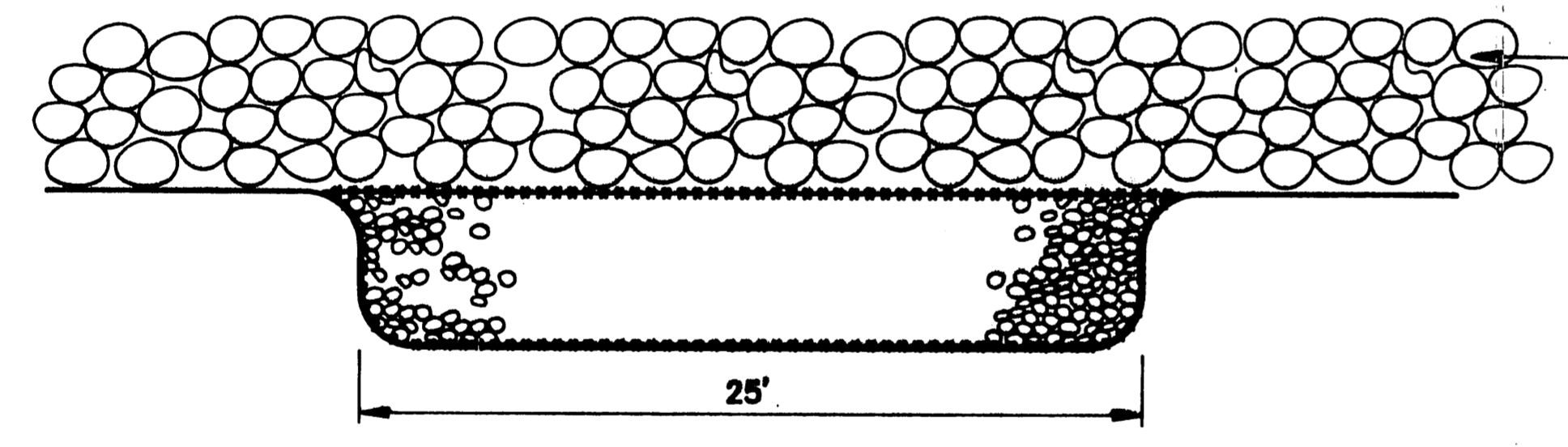
Δ = 65°02'45"
 D = 7°00'00"
 T = 521.91'
 L = 929.22'
 R = 818.51'



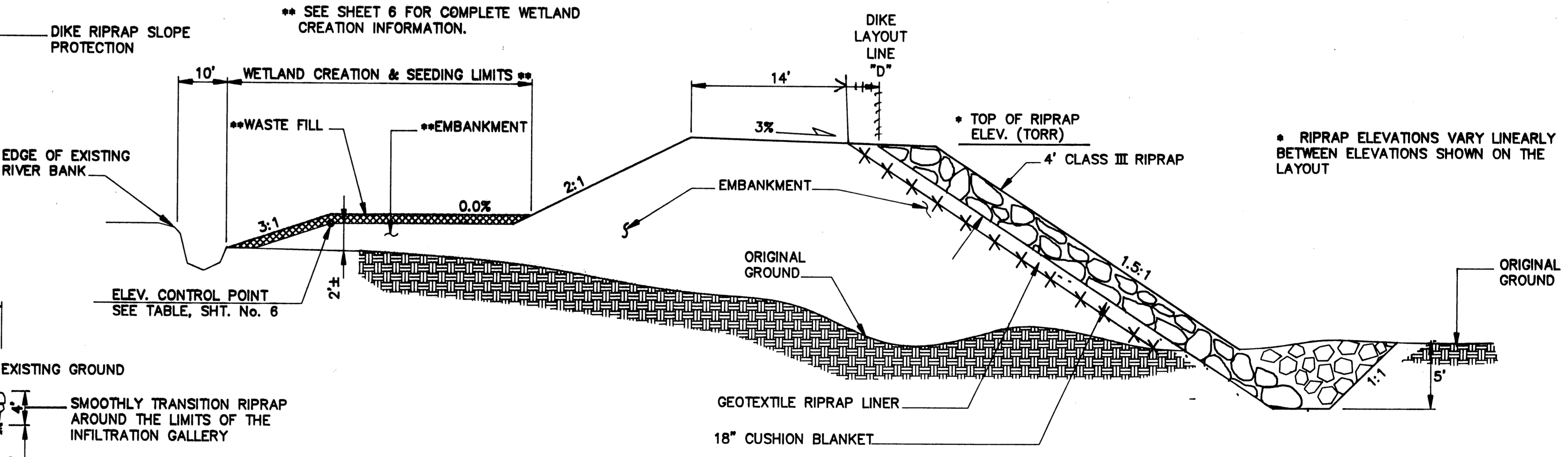
NOTE :

1. THE CLASS III RIPRAP SHALL TRANSITION SMOOTHLY INTO THE CLASS II RIPRAP AT STATION "D" 17+00.

△ PT. "D" 17+00.00=
 "O" 7+00.00, 75' RT.
 END CLASS III RIPRAP, BEGIN
 CLASS II RIPRAP. TORR=21.50
 SEE RUNWAY TYPICAL SECTION,
 SHEET 6.

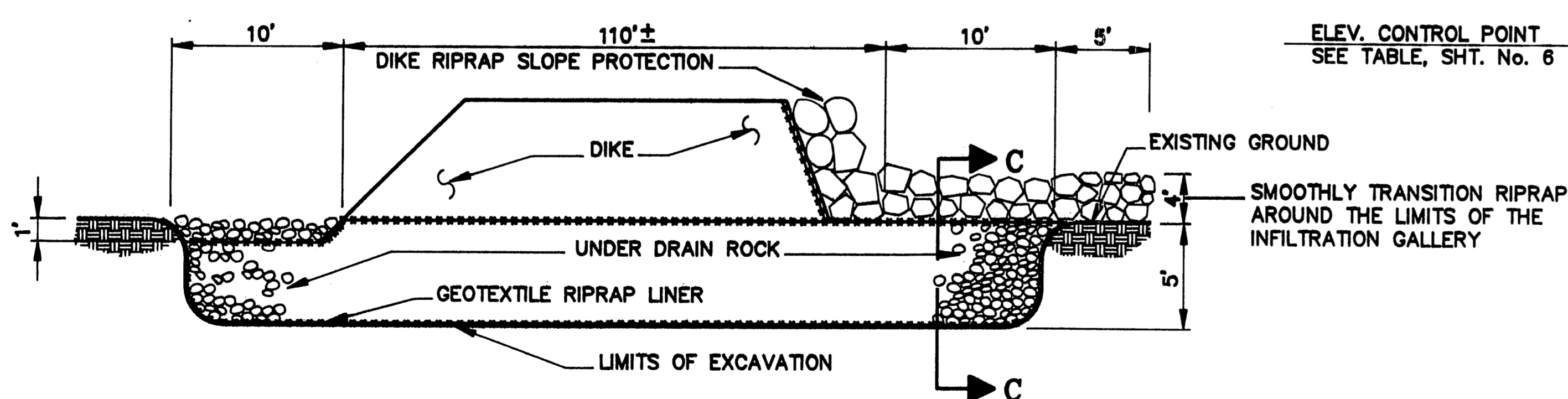


SECTION C-C



SECTION A-A

"D" 4+41 TO "D" 17+00



INFILTRATION GALLERY DETAIL

SECTION B-B

BY:	DATE:	DESCRIPTION OF CHANGE:

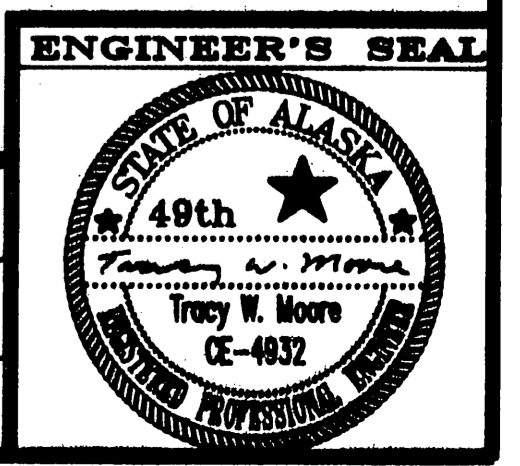
RECORD OF REVISIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

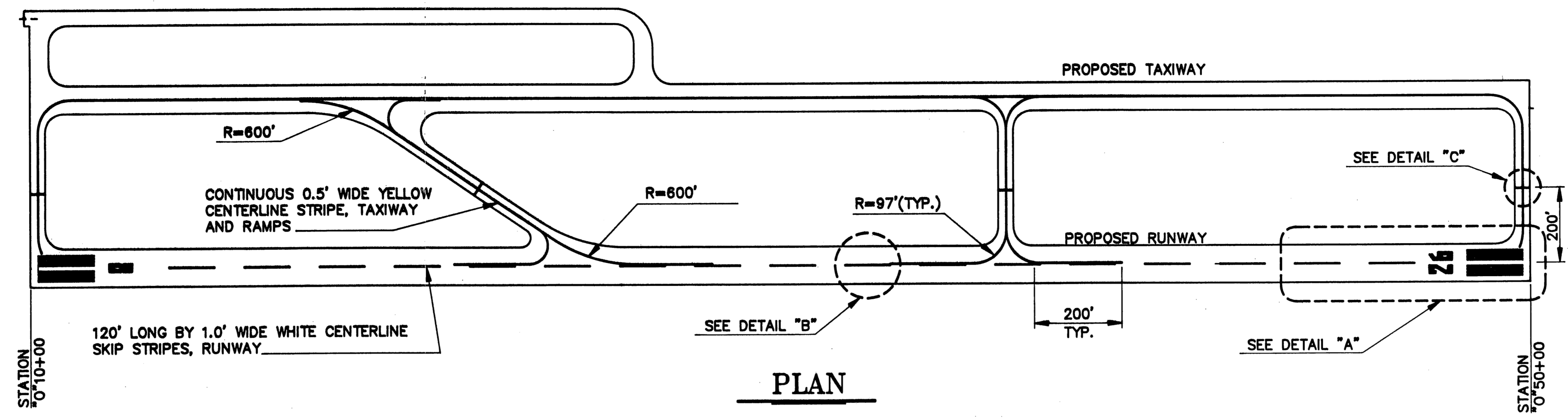
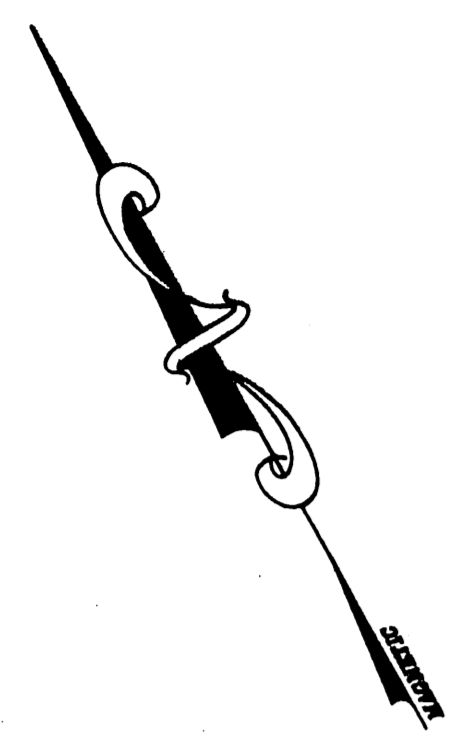
**HAINES AIRPORT
 DIKE & RIPRAP DETAILS**

DESIGNED BY:
 C. CORREA
 DRAWN BY:
 AutoCAD / C.S.A.
 CHECKED BY:
 T.W. MOORE

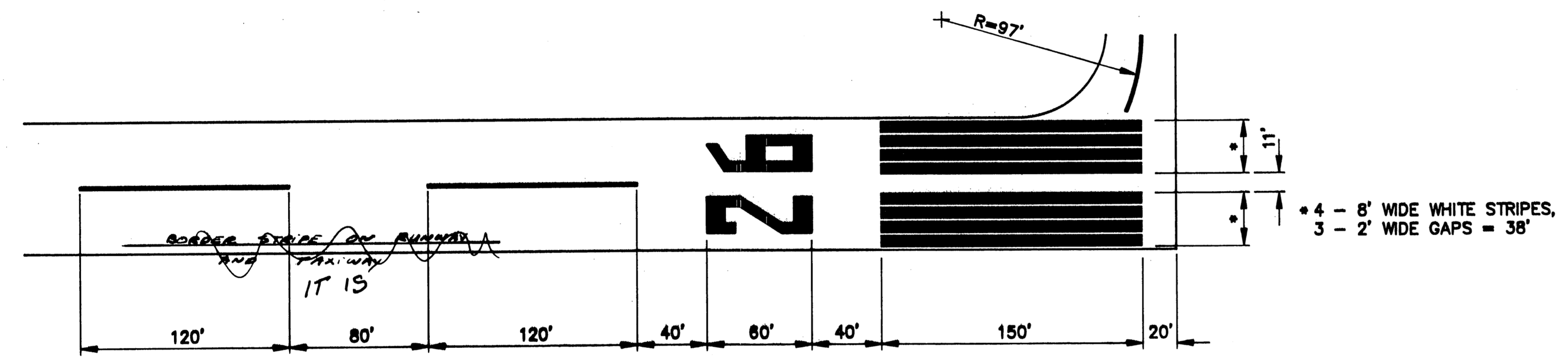
PROJECT No.
 69623
 DATE:
 AUGUST 1990
 SHEET 21 OF 39



*AS-BUILT
 B.F. 2-12-96*

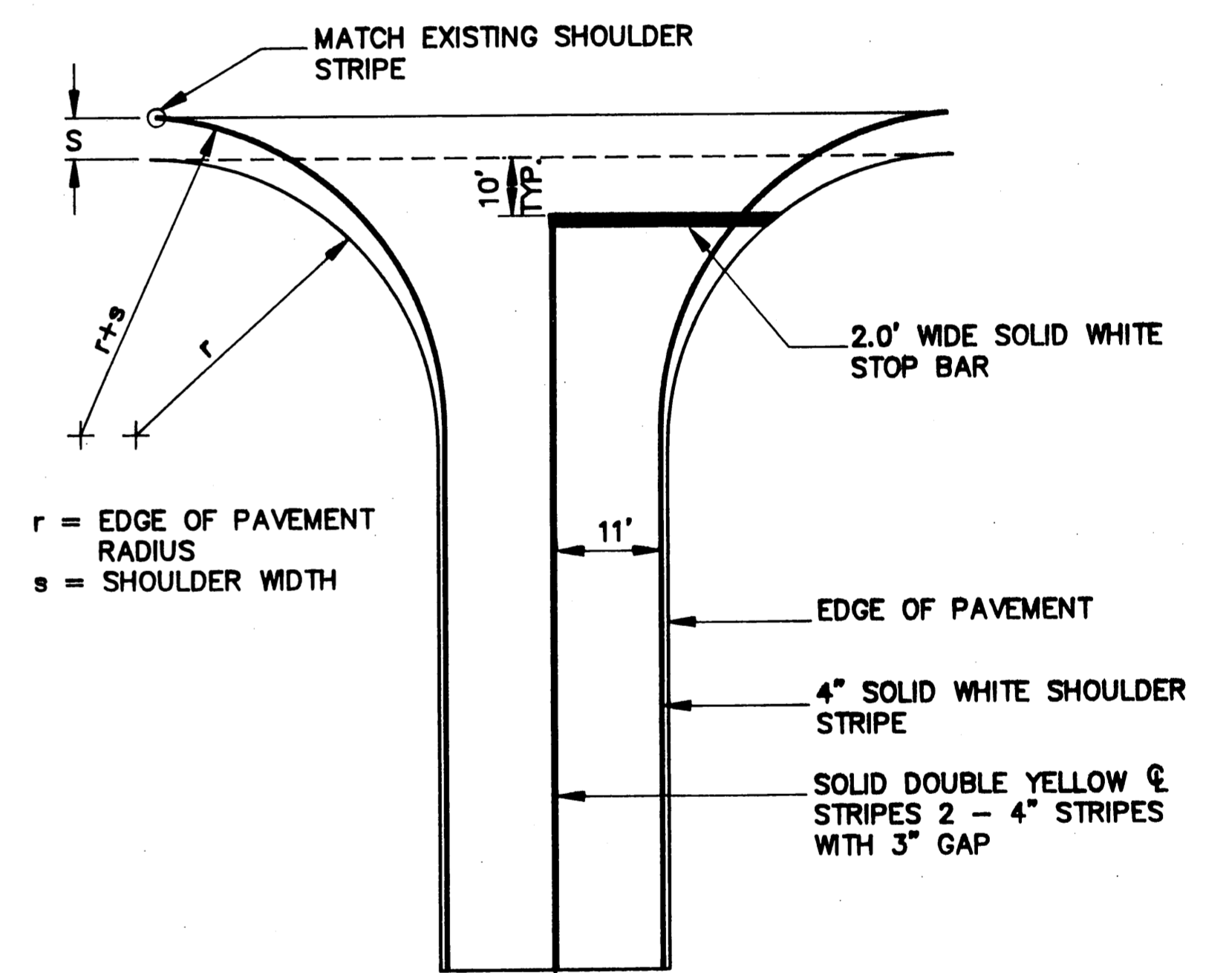


PLAN



DETAIL "A"

NOTE: WEST END OF RUNWAY IS SIMILAR, EXCEPT RUNWAY NUMBER IS DIFFERENT.



ACCESS ROAD STRIPING TYPICAL

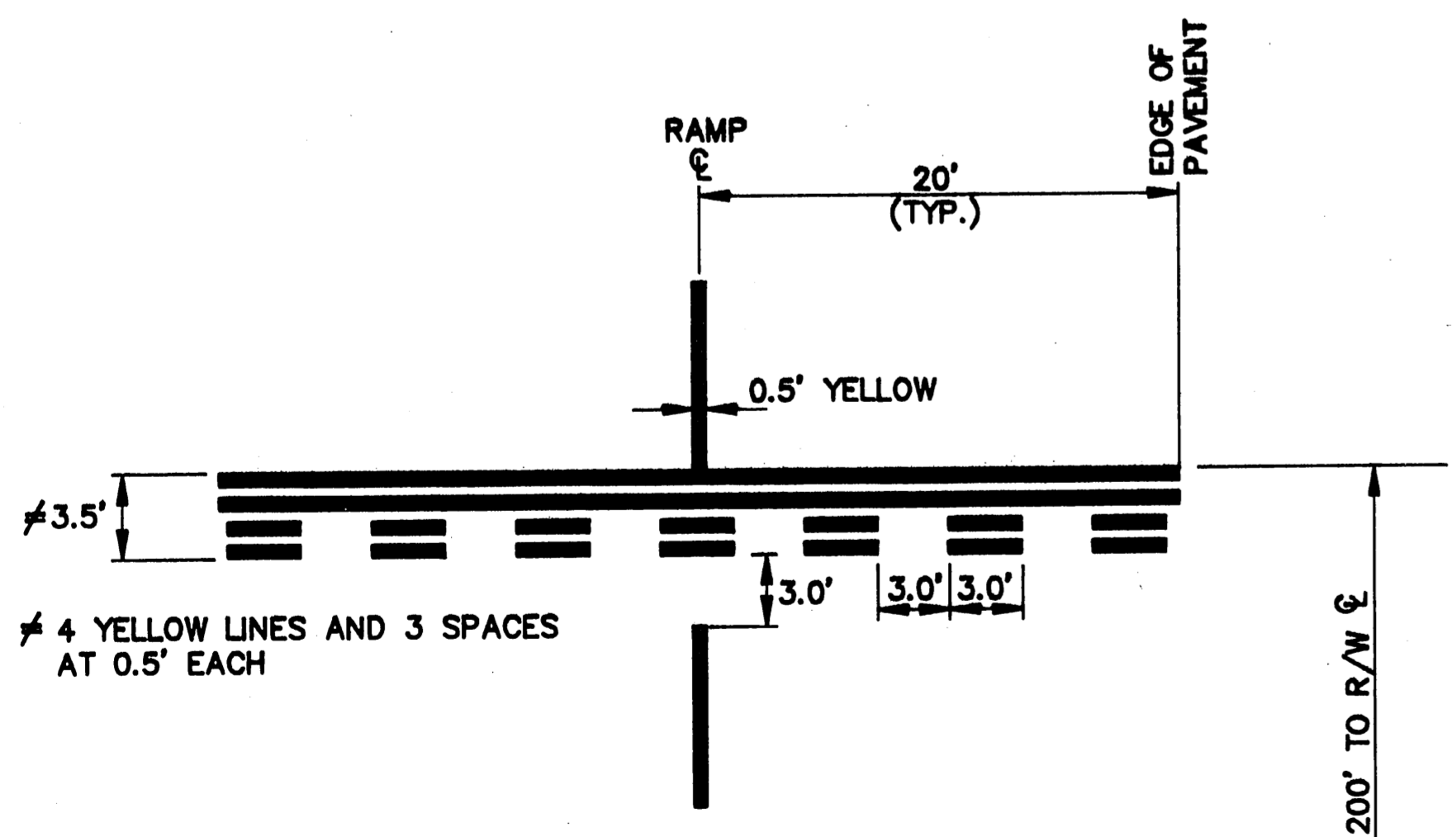
ACCESS ROAD STRIPING REQUIRED:

"M" 9+00 TO "M" 25+79
 "S" 10+20 TO "S" 13+21

3 STOP BARS REQUIRED:

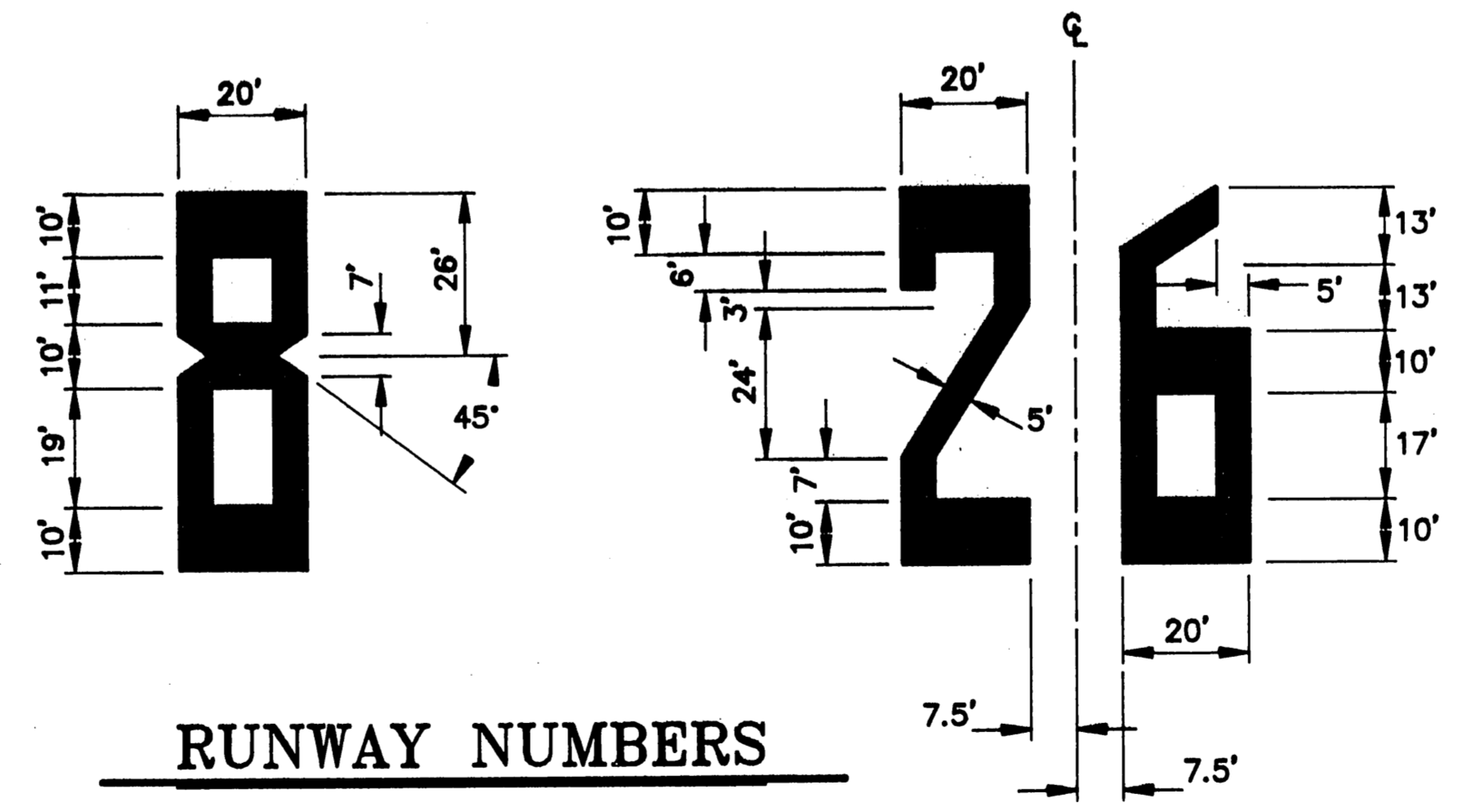
"M" 25+69, RT.
 "S" 10+50, LT.
 "M" 19+50, 16' RT.

AS-BUILT
 B.F. 2-12-76

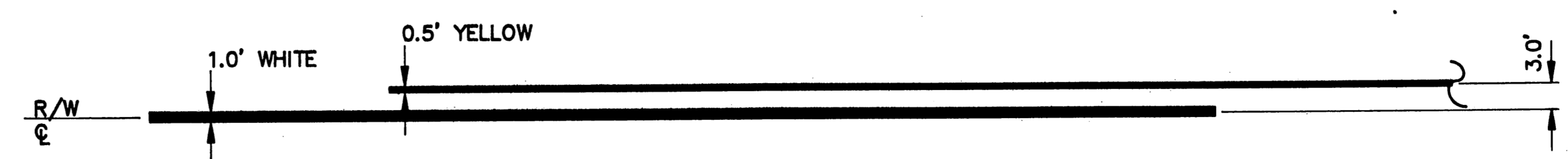


DETAIL "C"

TYPICAL TAXI-HOLDING POSITION MARKING (4 REQUIRED)



RUNWAY NUMBERS



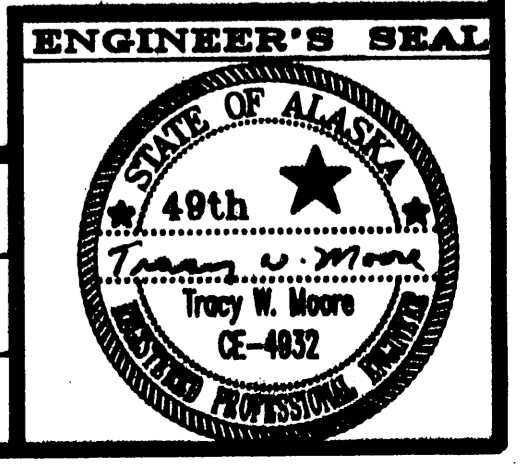
DETAIL "B"

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

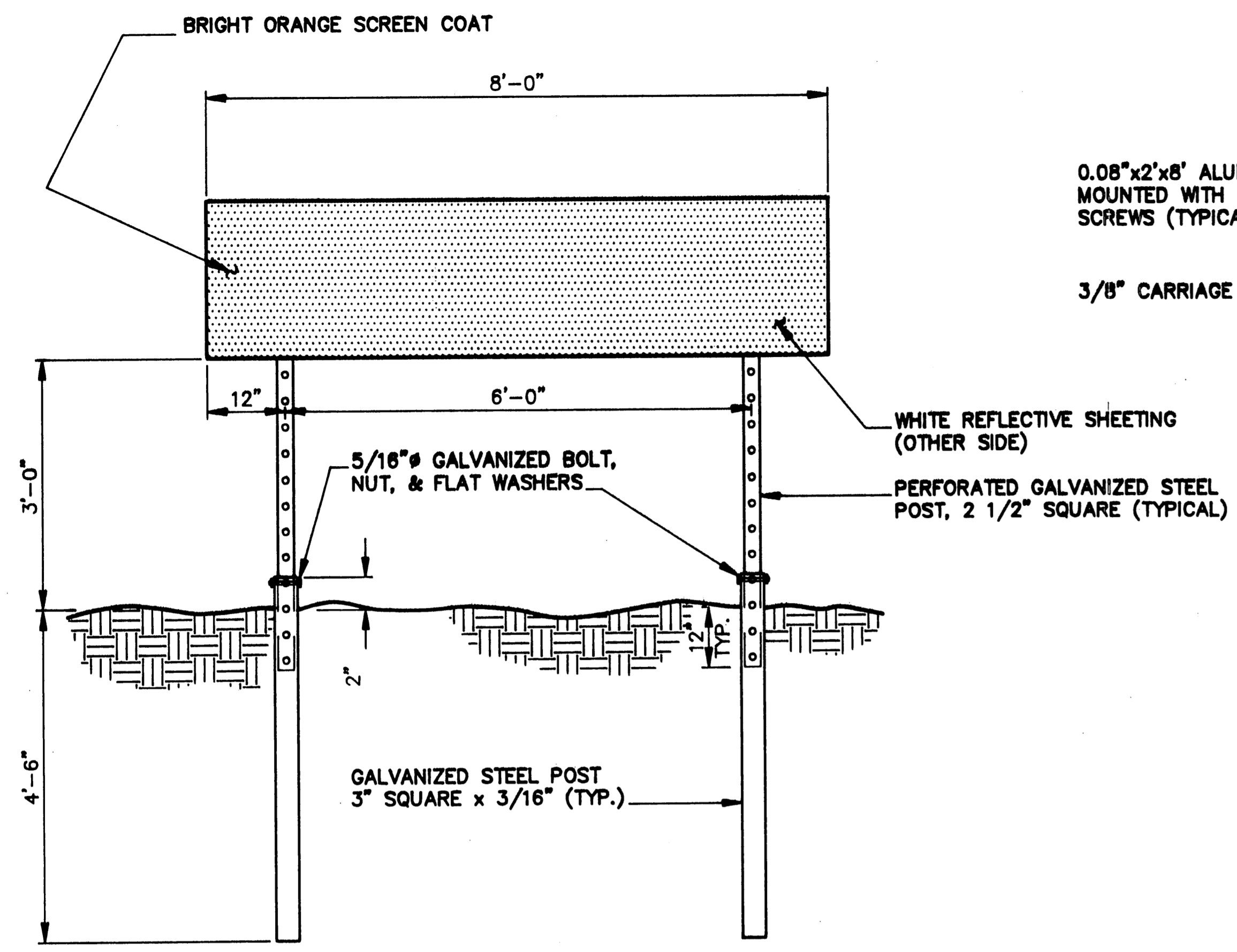
HAINES AIRPORT
 STRIPING PLAN

DESIGNED BY: T.W. MOORE	PROJECT No. 09523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 22 of 39

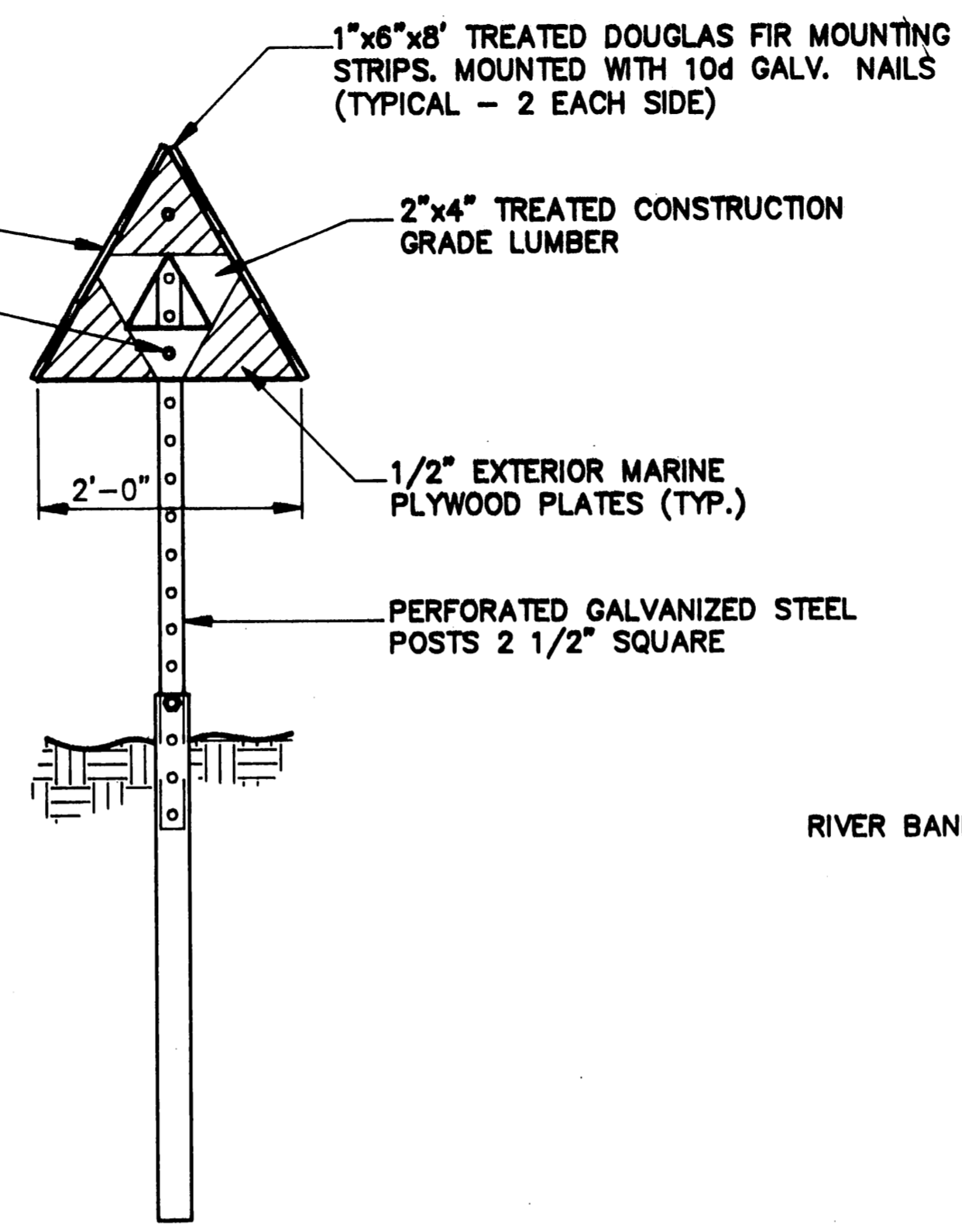


SEGMENTED CIRCLE AND WINDCONE NOTES:

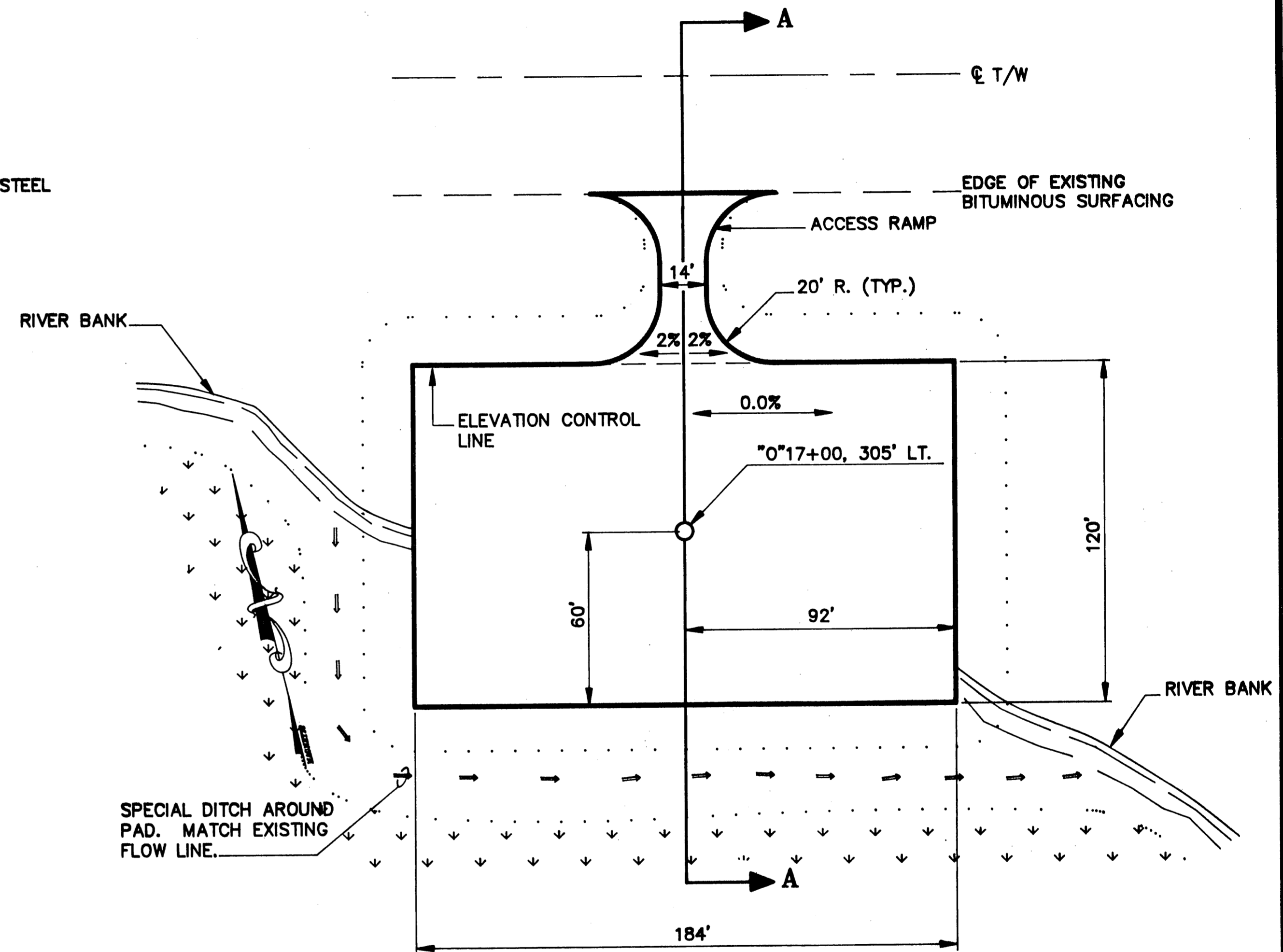
1. THE SEGMENTED CIRCLE TRIANGULAR MOUNTING FRAMES SHALL BE FASTENED TO THE STEEL POSTS WITH TWO 3/8"x5" GALVANIZED CARRIAGE BOLTS. FASTEN MOUNTING STRIPS TO 2"x4" FRAME WITH EXTERIOR CEMENT AND GALVANIZED NAILS. PREPUNCH ALUMINUM SHEETS ON 12" CENTERS, 3" FROM TOP TO BOTTOM. FASTEN TO MOUNTING STRIPS WITH 1/2" x #8 PAN HEAD COATED SHEET METAL SCREWS.
2. ALL WOOD USED SHALL BE PAINTED WITH NON-LEADED ENAMEL PAINT, COLOR BLACK.
3. EXISTING LIGHTED WINDCONE SHALL BE SALVAGED AND RELOCATED. PRIOR TO ERECTING, THE HARDWARE SHALL BE CLEANED AND SERVICED.



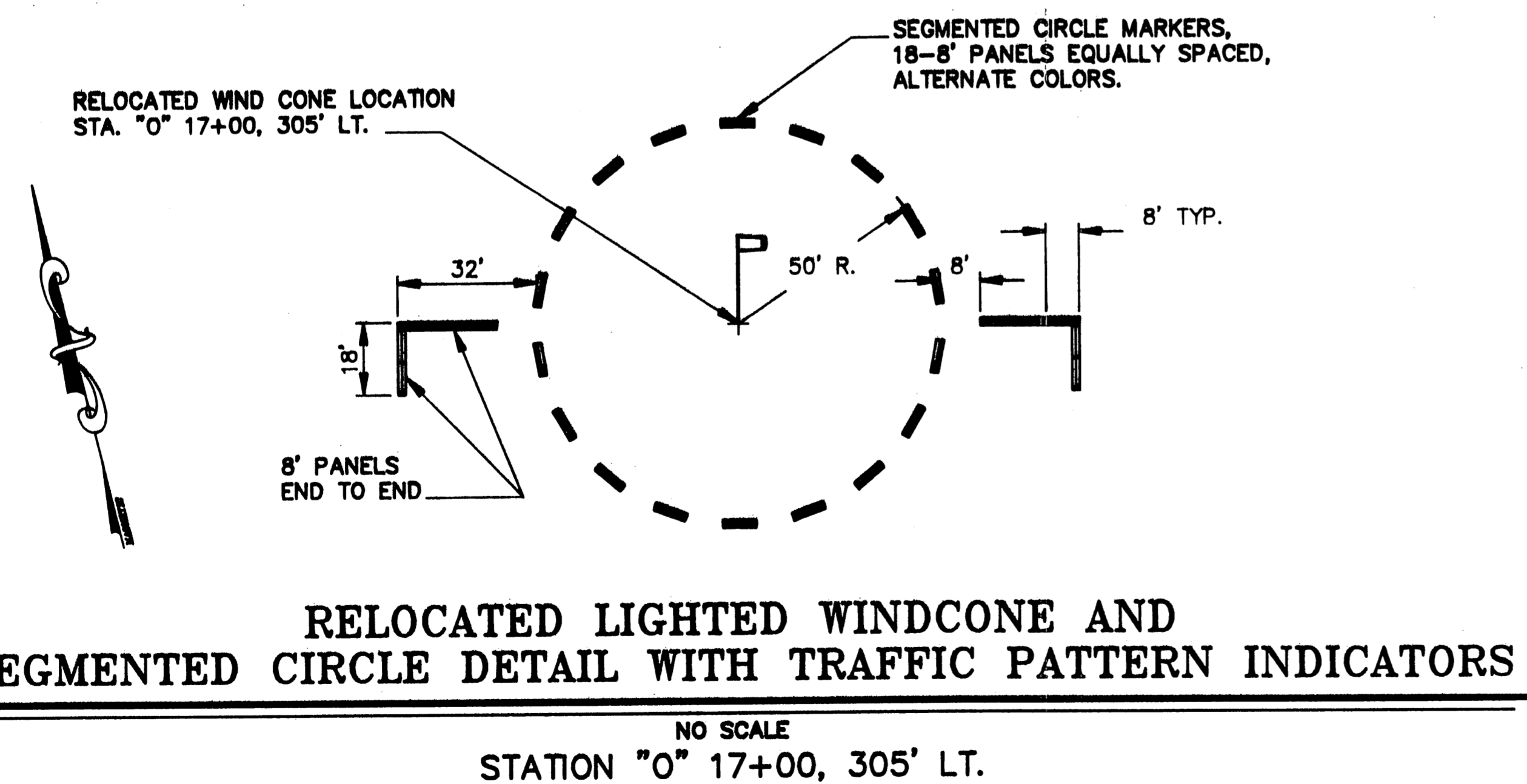
**FRONT VIEW DETAIL
SEGMENTED CIRCLE MARKERS**
NO SCALE



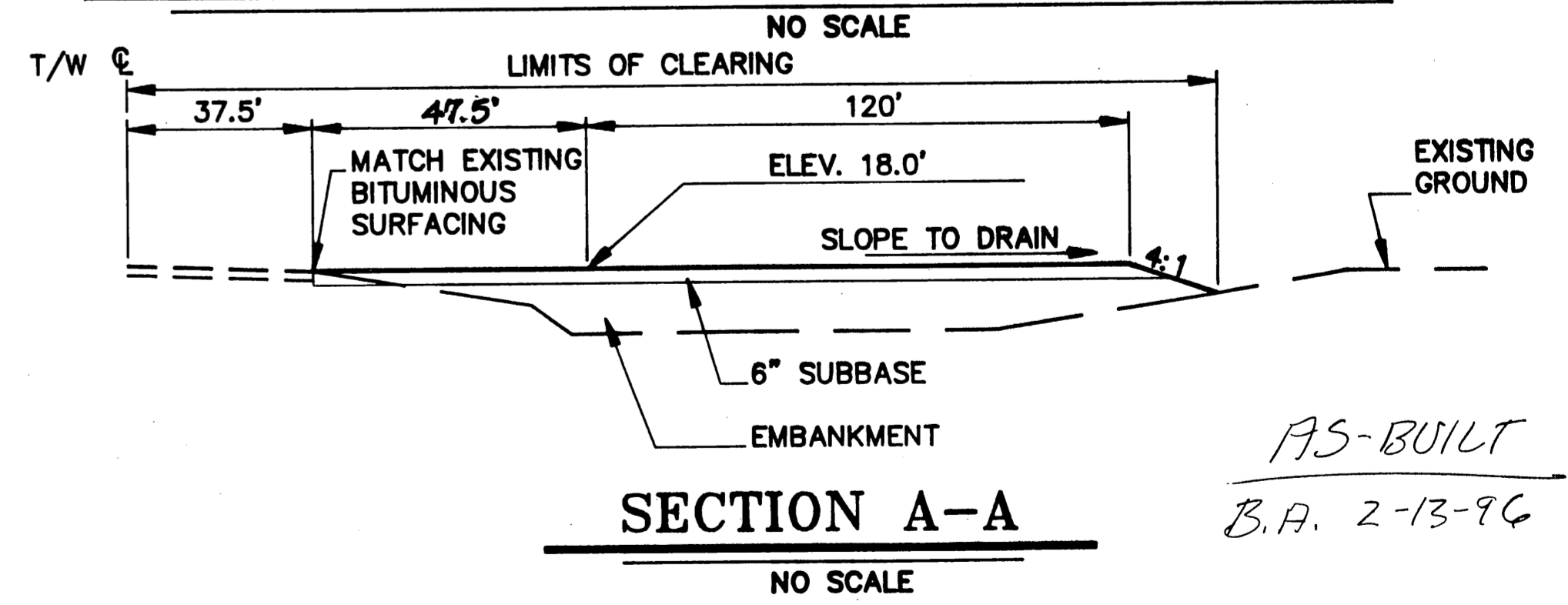
**SIDE VIEW DETAIL, BOUNDARY
MARKERS & SEGMENTED CIRCLE**
NO SCALE



SEGMENTED CIRCLE PAD & ACCESS PLAN



**RELOCATED LIGHTED WINDCONE AND
SEGMENTED CIRCLE DETAIL WITH TRAFFIC PATTERN INDICATORS**
NO SCALE
STATION "0" 17+00, 305' LT.



SECTION A-A
NO SCALE

AS-BUILT
B.A. 2-13-96

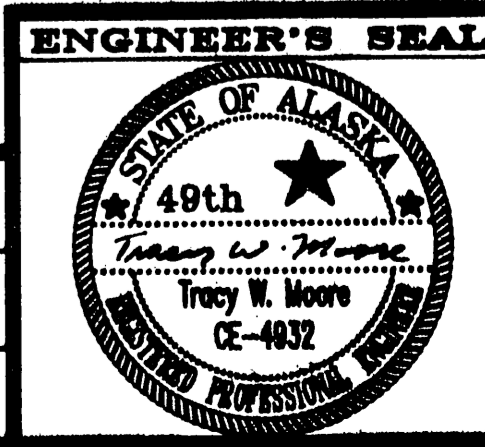
BY:	DATE:	DESCRIPTION OF CHANGE:

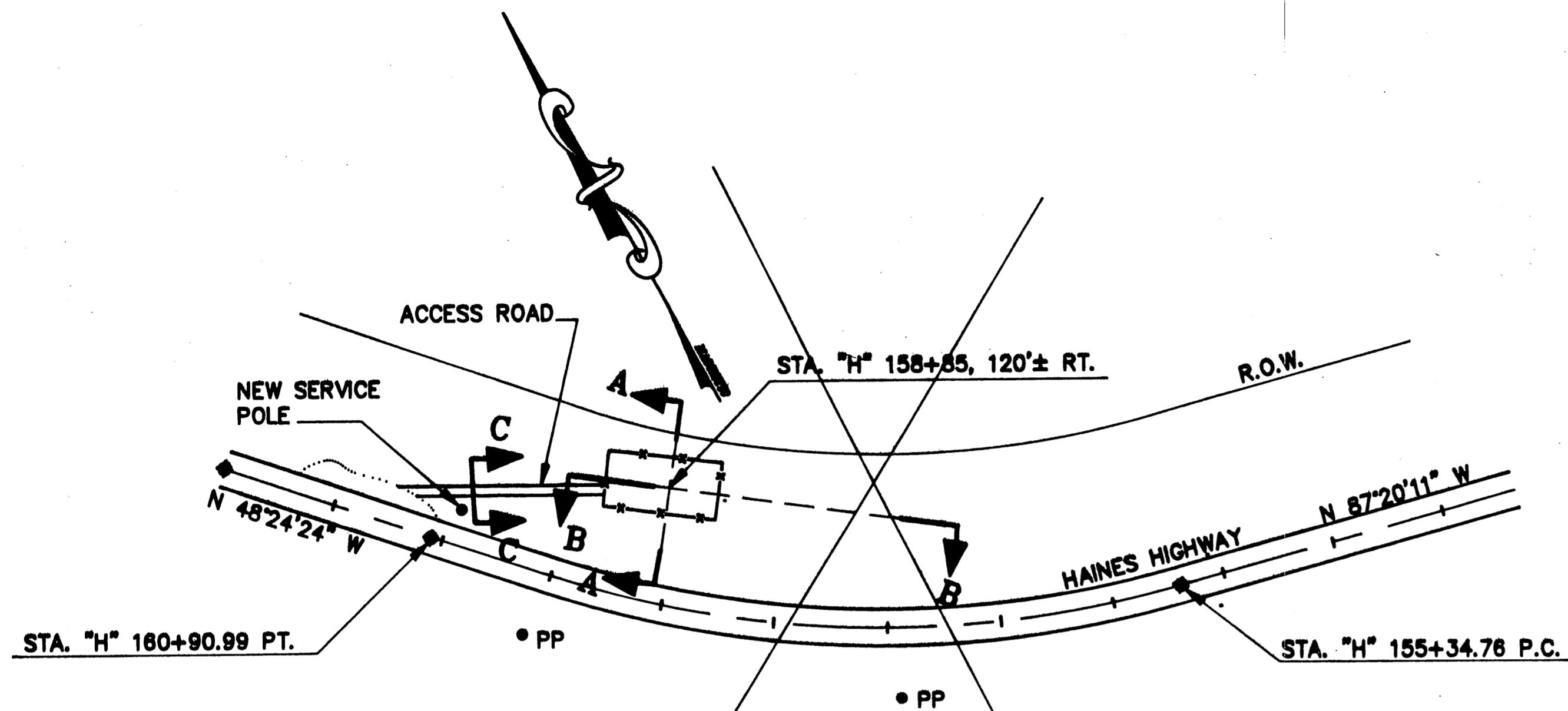
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
SEGMENTED CIRCLE & WINDCONE DETAILS

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: C. HAKARI	SHEET 23 OF 39

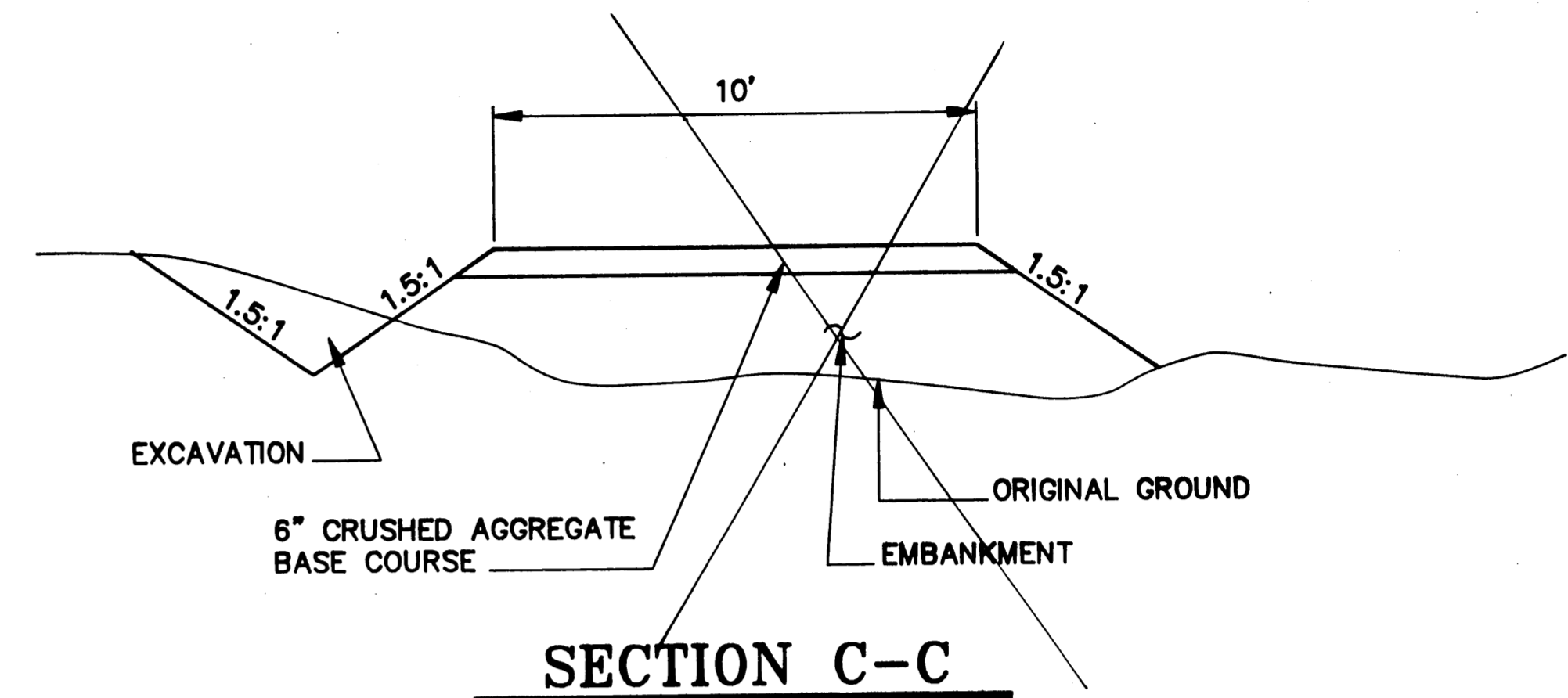




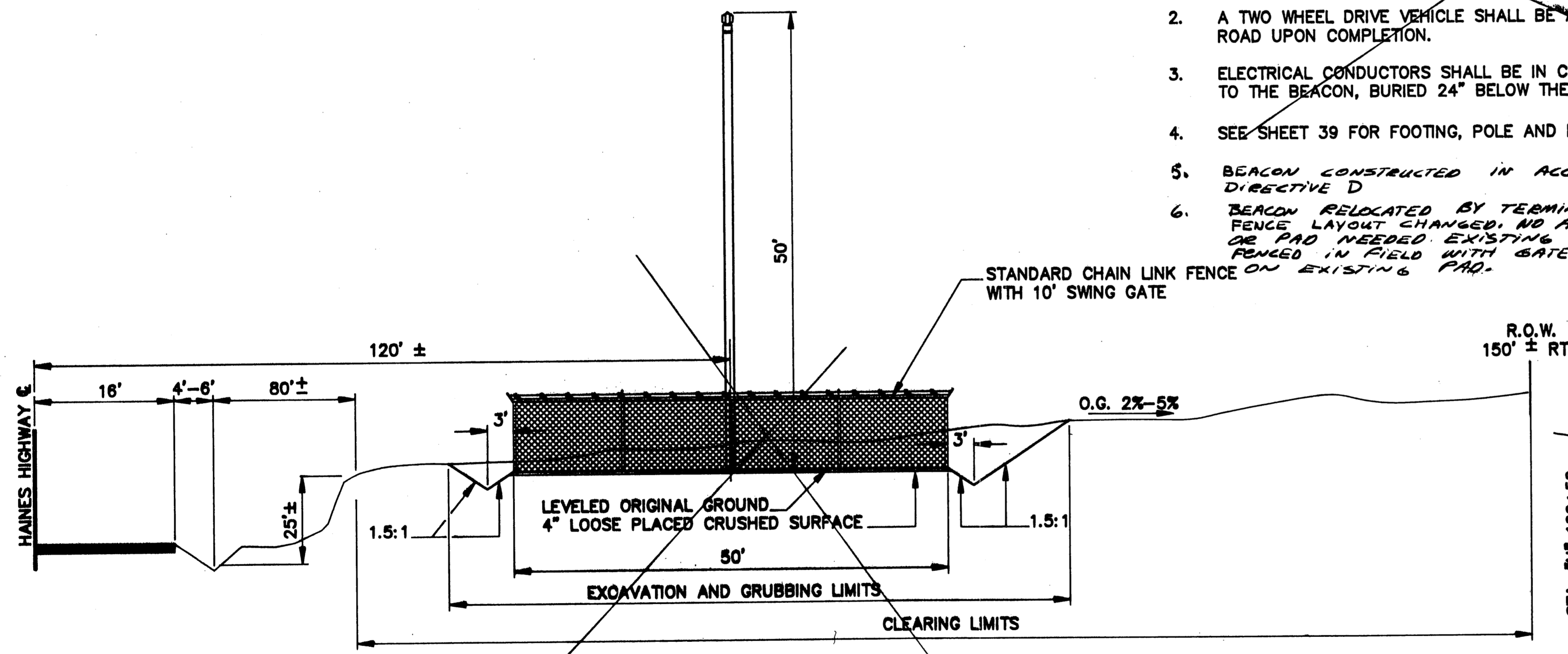
BEACON LAYOUT PLAN

NOTES :

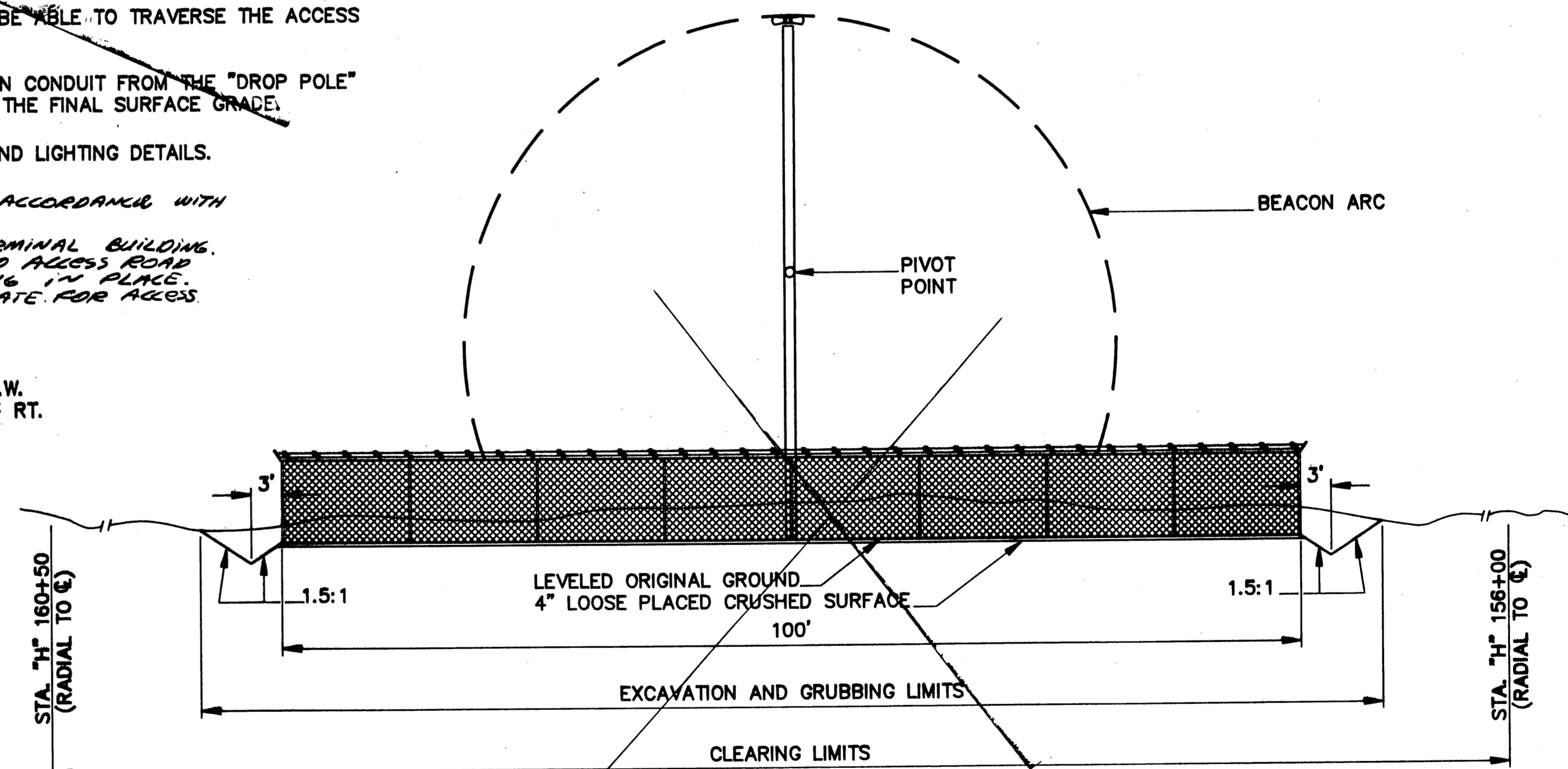
1. THE CONTRACTORS FINAL LOCATION OF THE:
 A) ACCESS FENCE GATE (10' SWING GATE)
 B) ACCESS ROAD
 C) ELECTRICAL SERVICE POLE
 SHALL BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK. MAXIMUM GRADE 1.5%
2. A TWO WHEEL DRIVE VEHICLE SHALL BE ABLE TO TRAVERSE THE ACCESS ROAD UPON COMPLETION.
3. ELECTRICAL CONDUCTORS SHALL BE IN CONDUIT FROM THE "DROP POLE" TO THE BEACON, BURIED 24" BELOW THE FINAL SURFACE GRADE.
4. SEE SHEET 39 FOR FOOTING, POLE AND LIGHTING DETAILS.
5. BEACON CONSTRUCTED IN ACCORDANCE WITH DIRECTIVE D
6. BEACON RELOCATED BY TERMINAL BUILDING. FENCE LAYOUT CHANGED. NO ACCESS ROAD OR PAD NEEDED. EXISTING IN PLACE. FENCED IN FIELD WITH GATE FOR ACCESS.



SECTION C-C



SECTION A-A
(STA. "H" 158+85)



SECTION B-B

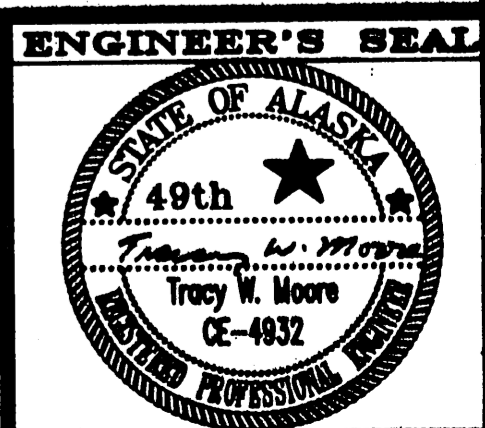
AS-BUILT
B.A. 2-13-96

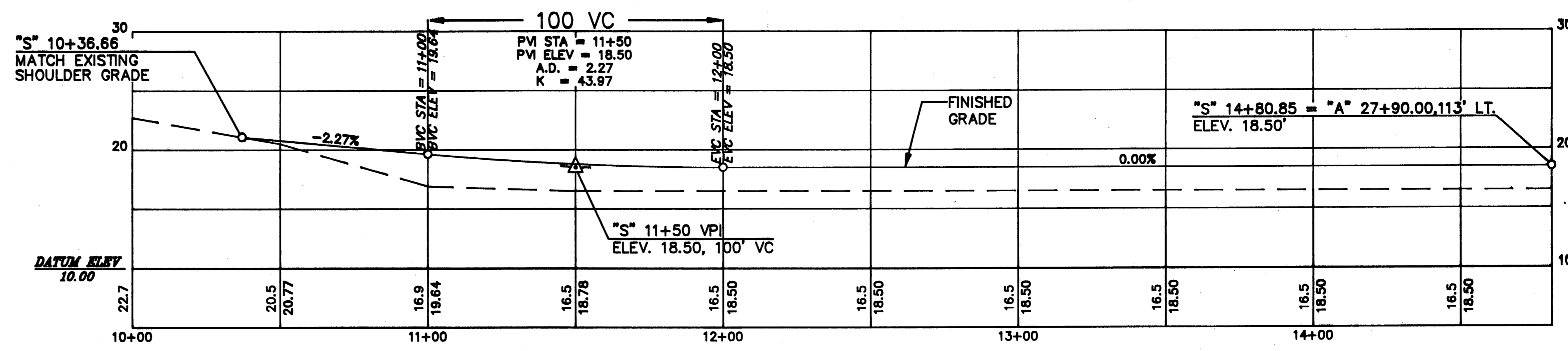
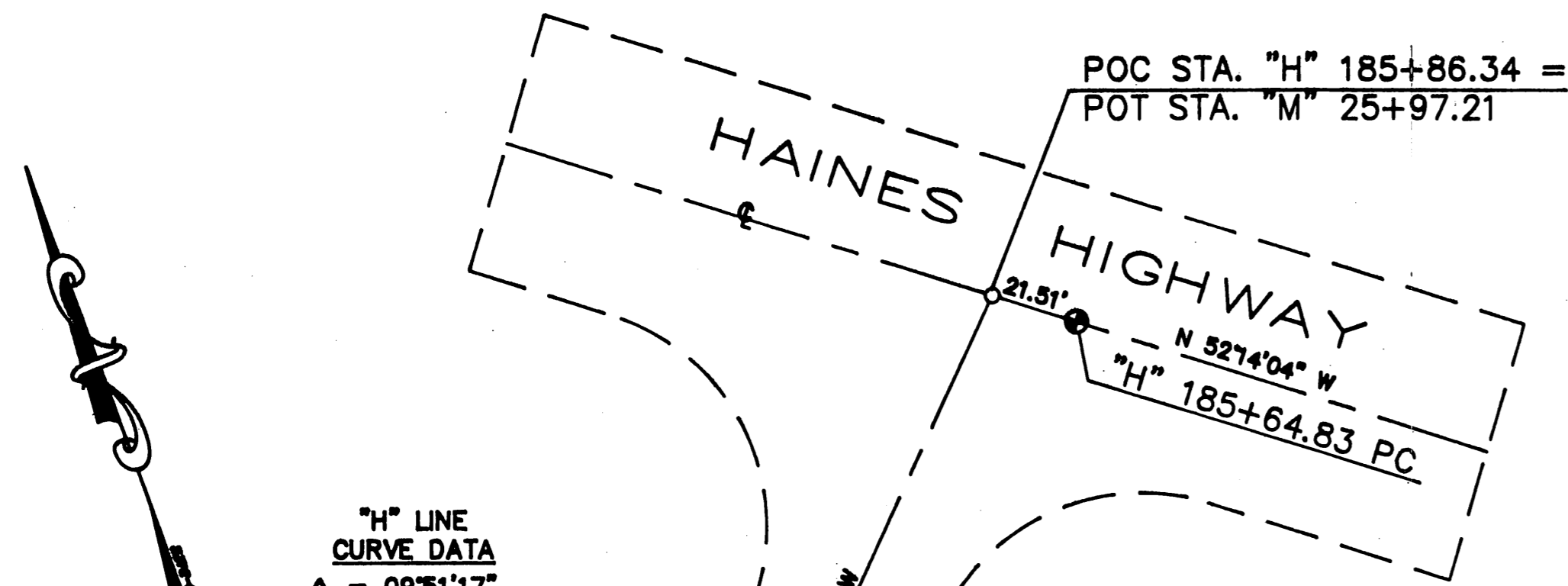
BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

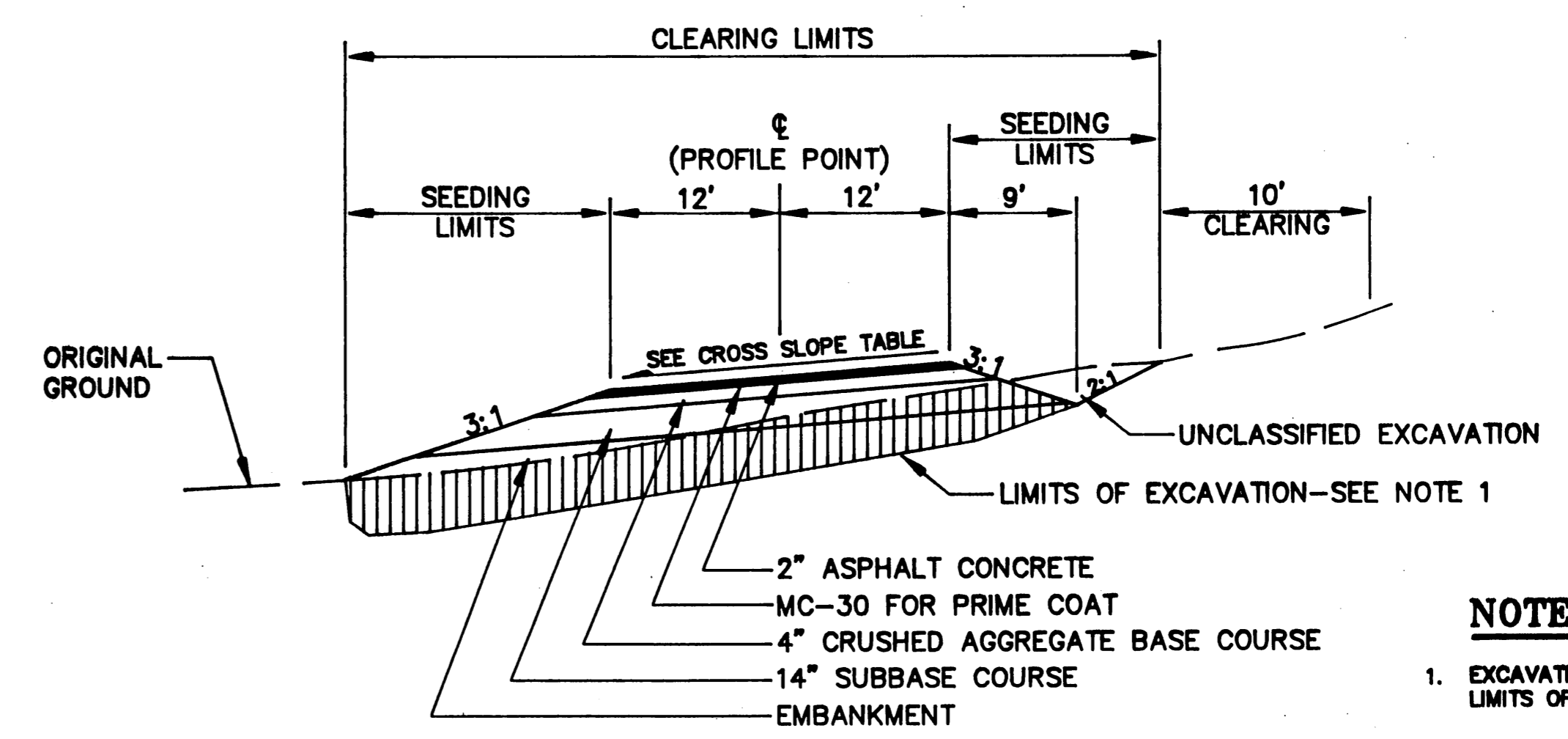
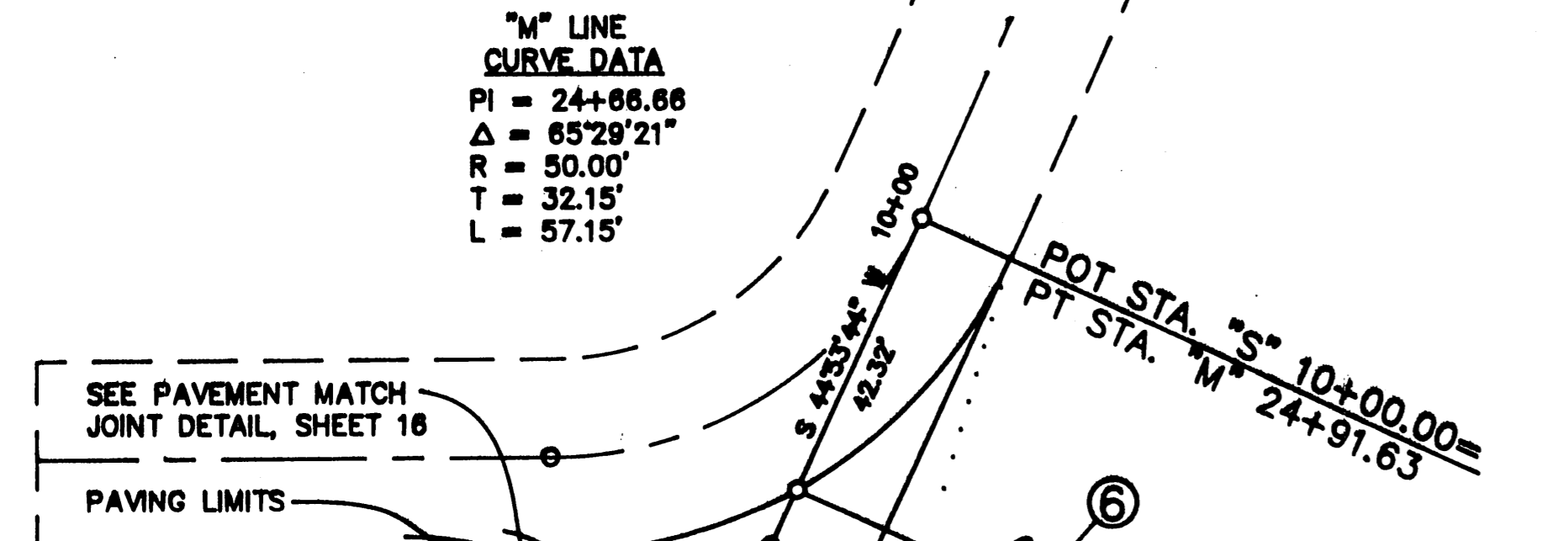
HAINES AIRPORT
AIRPORT BEACON DETAILS

DESIGNED BY: T.W. MOORE	PROJECT No. 69523
DRAWN BY: AutoCAD / B.W.B.	DATE: AUGUST 1990
CHECKED BY: T.W. MOORE	SHEET 24 of 39





PROFILE



TYPICAL SECTION

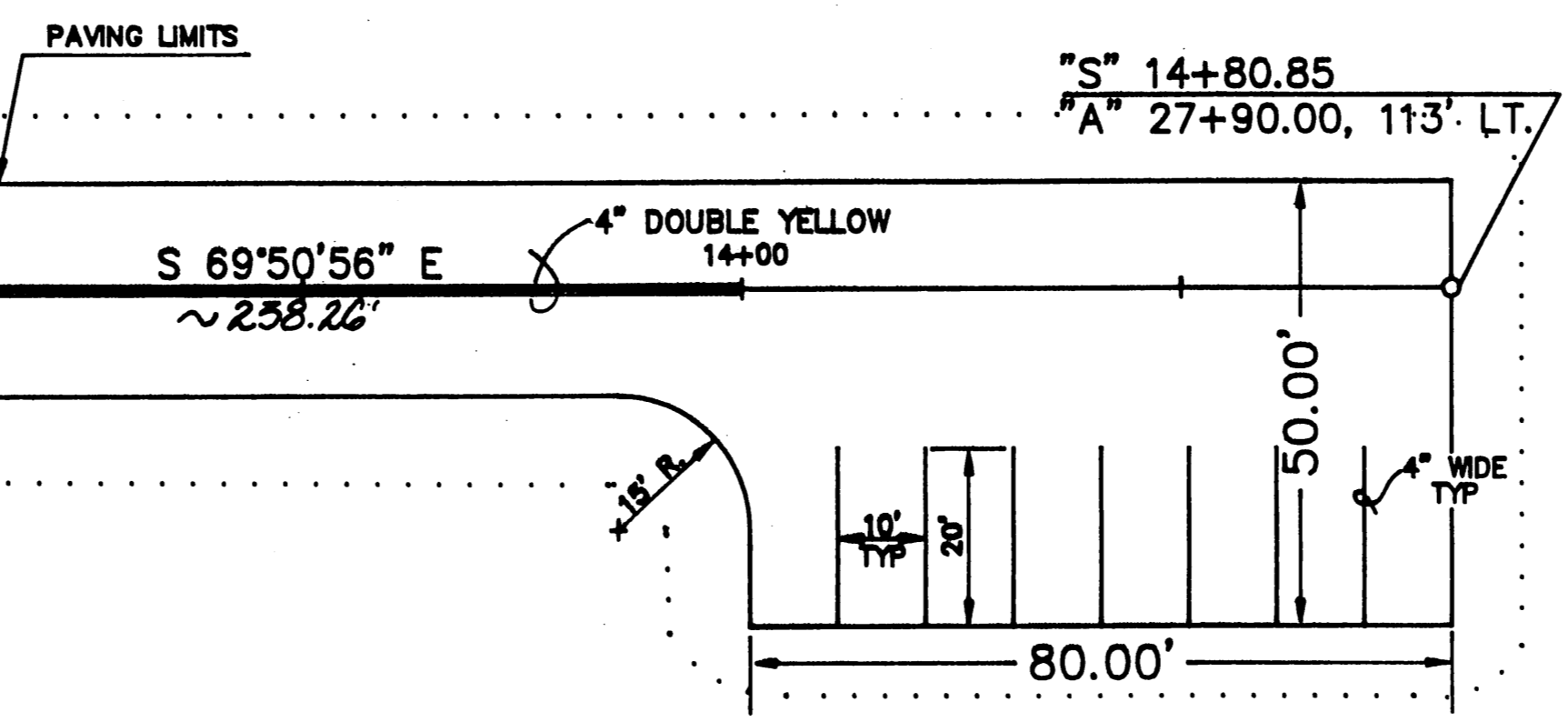
ACCESS ROAD "S" 10+19 TO "S" 14+00.85
AND
PARKING PAD "S" 14+00.85 TO "S" 14+80.85
SHALL HAVE SAME STRUCTURAL SECTION AND SIDE SLOPES

- NOTES**
- EXCAVATION DEPTH VARIES AND WILL BE THE LIMITS OF ORGANIC SOILS.

"S" LINE
CURVE DATA
PI = 11+98.52
Δ = 114°44'40"
R = 100.00'
T = 156.20'
L = 200.27'



PLAN



STATION	LT.	RT.
"S" 10+79	MATCH MAIN ACCESS SHOULDER	
"S" 10+50	FLAT	FLAT
"S" 11+00	-4	+4
"S" 12+10	-4	+4
"S" 12+50	-2	+2
"S" 14+80.85	-2	+2

* CROSS SLOPES SHALL VARY LINEARLY BETWEEN THESE STATIONS

As Built
B.A. 2-13-96

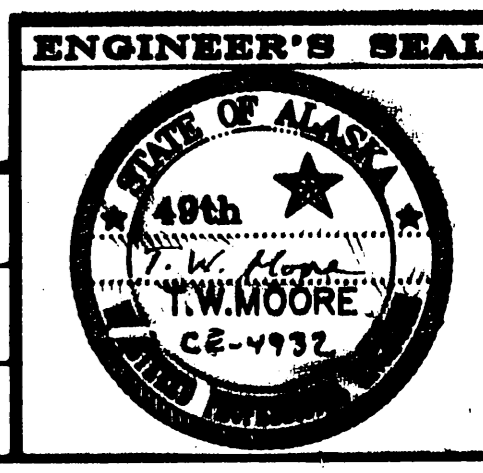
BY:	DATE:	DESCRIPTION OF CHANGE:

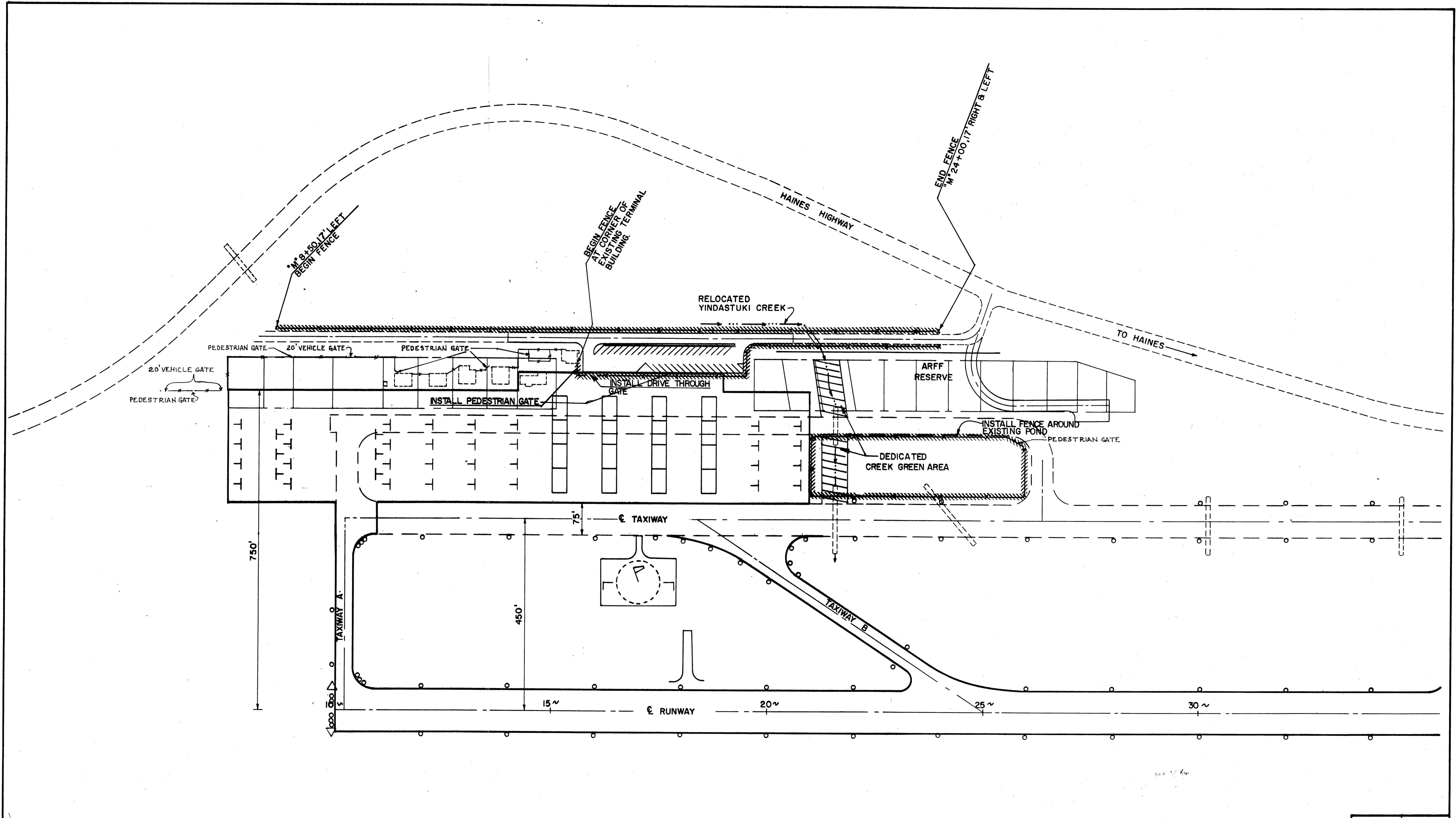
RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES.
SOUTHEAST REGION DESIGN & CONSTRUCTION

**HAINES AIRPORT
ACCESS ROAD PLAN & PROFILE**

DESIGNED BY: C. HAKARI	PROJECT No. 69623
DRAWN BY: AutoCAD / R.K.S.	DATE:
CHECKED BY: T.W. MOORE	SHEET 25 of 39





BY	DATE	DESCRIPTION OF CHANGE
RECORD OF REVISIONS		

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT SECURITY FENCING
 GENERAL LAYOUT

APPROVED BY:	DESIGNED BY:	SCALE:
DESIGN GROUP CHIEF	B. A.	
RECOMMENDED BY:	DRAWN BY:	DATE:
DESIGN ENGINEER, GROUP	C. H.	
PREPARED BY:	CHECKED BY:	
PROJECT MANAGER	LEAD DESIGNER	

SHEET 26 OF 39

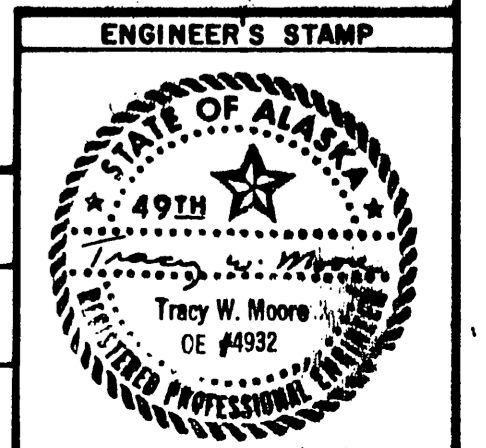


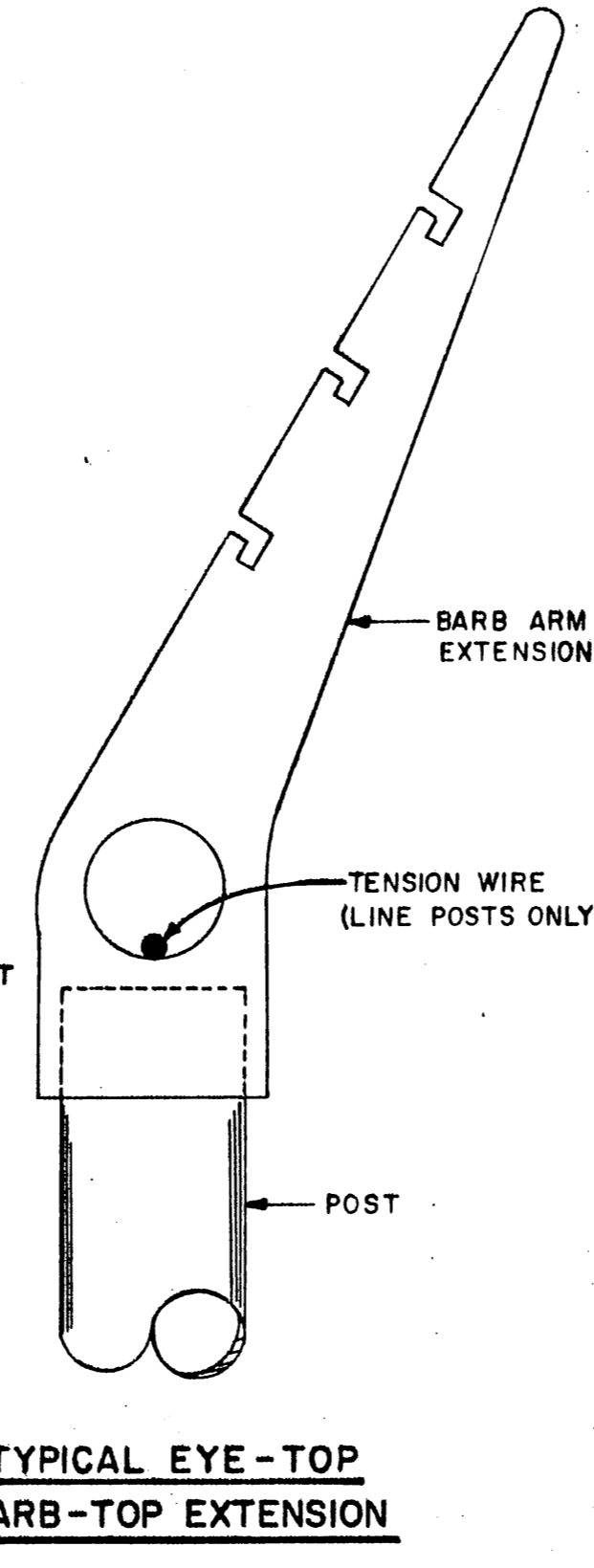
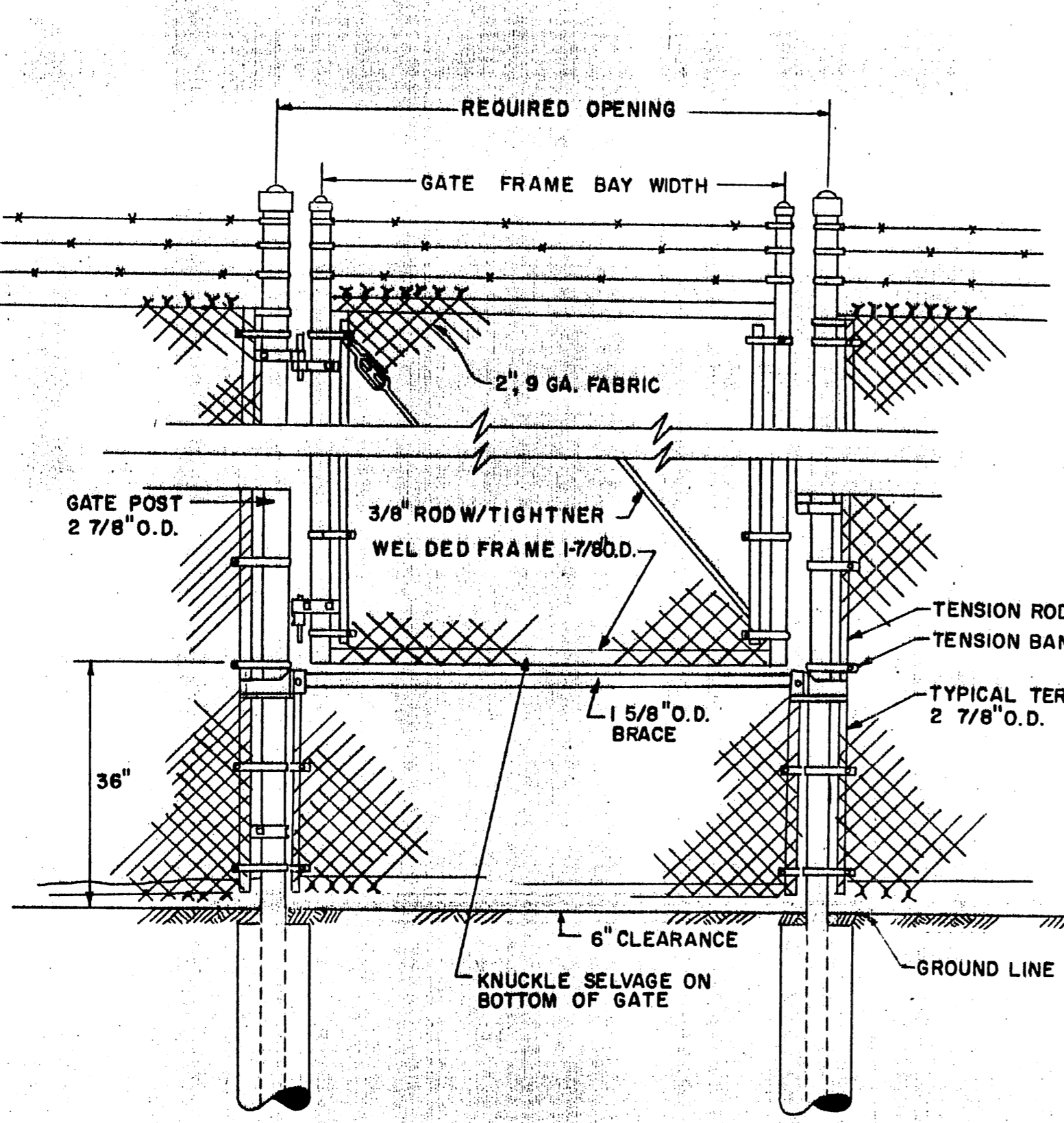
CHART #1
SPECIFICATIONS FOR SINGLE GATES

A-I	B-I	H-I	D-I	E-I	K
SINGLE GATE OPENING	ROLLER POST SPACING	OVER ALL LENGTH OF TOP AND BOTTOM	FABRIC SECTION OF FRAME	OPEN SECTION OF FRAME	EXTENS-ION OF FRAME
6'-0"	4'-0"	11'-2"	6'-6"	4'-4"	4"
8'-0"	4'-0"	13'-2"	8'-6"	4'-4"	4"
10'-0"	5'-0"	16'-2"	10'-6"	5'-4"	4"
12'-0"	6'-0"	19'-2"	12'-6"	6'-4"	4"
14'-0"	7'-0"	22'-2"	14'-6"	7'-4"	4"
16'-0"	8'-0"	25'-2"	16'-6"	8'-4"	4"
18'-0"	9'-0"	28'-2"	18'-6"	9'-4"	4"
20'-0"	10'-0"	31'-2"	20'-6"	10'-4"	4"
24'-0"	12'-6"	36'-2"	24'-6"	12'-4"	4"

CHART #2
SPECIFICATIONS GATE HEIGHTS

FENCE HEIGHT	F	L	J
POST HEIGHT TO GRADE	FRAME HEIGHT	LENGTH 2" O.D. UPRIGHTS	
6'	7'-6"	5'-5 3/4"	5'-1"
7'	8'-6"	6'-5 3/4"	6'-1"
8'	9'-6"	7'-5 3/4"	7'-1"
9'	10'-6"	8'-5 3/4"	8'-1"
10'	11'-6"	9'-5 3/4"	9'-1"
12'	13'-6"	11'-5 3/4"	11'-1"

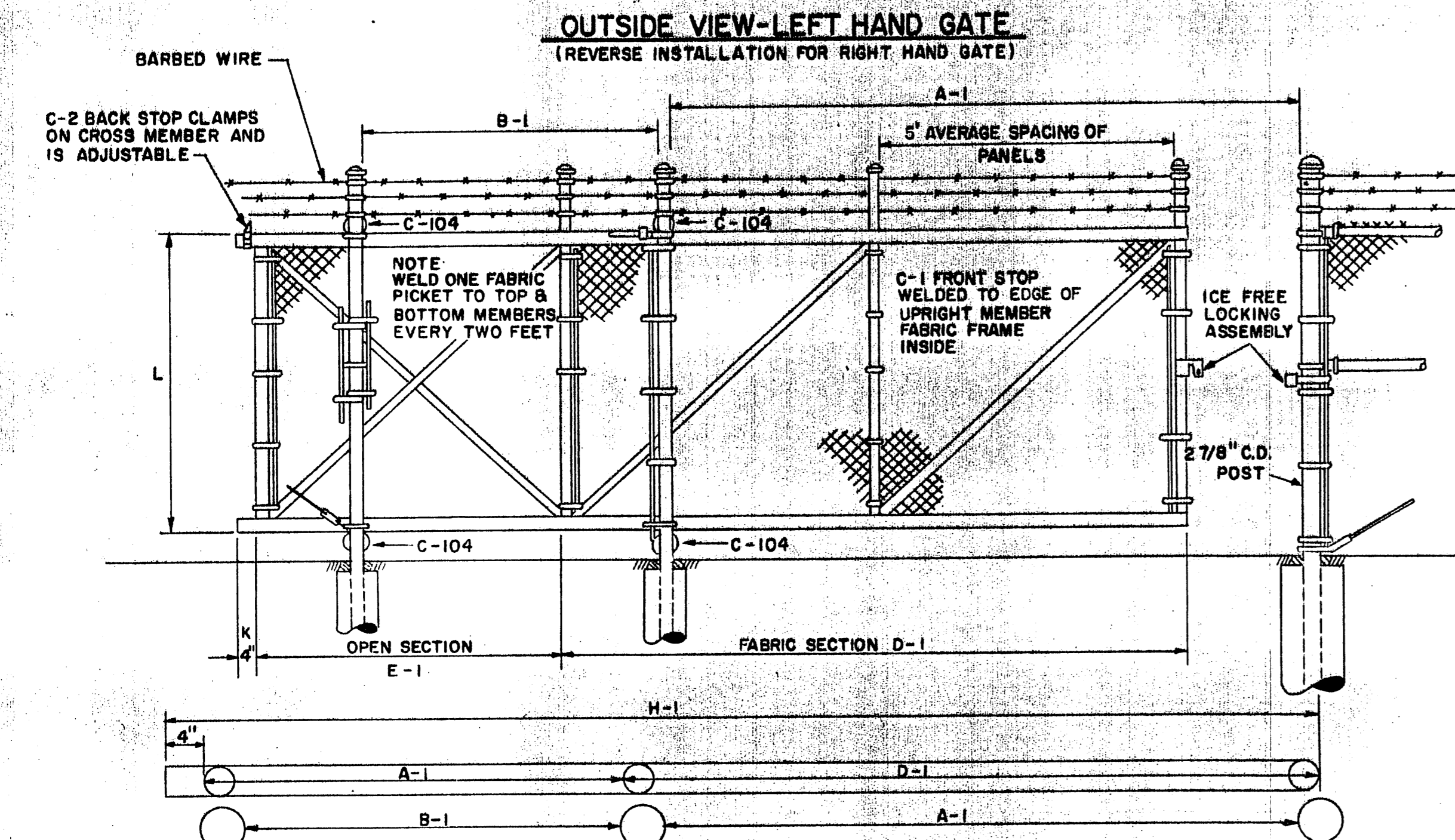
NOTE:
ALL GATES INSTALLED UNDER THIS CONTRACT SHALL BE 8 FT. IN HEIGHT.



TYPICAL EYE-TOP BARB-TOP EXTENSION

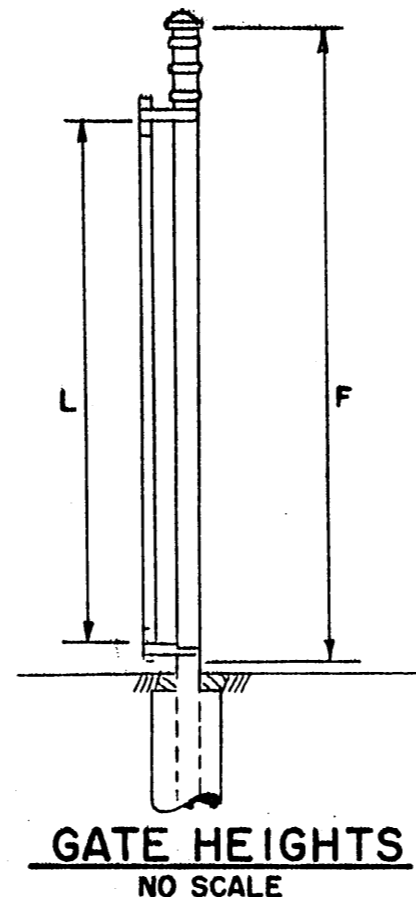
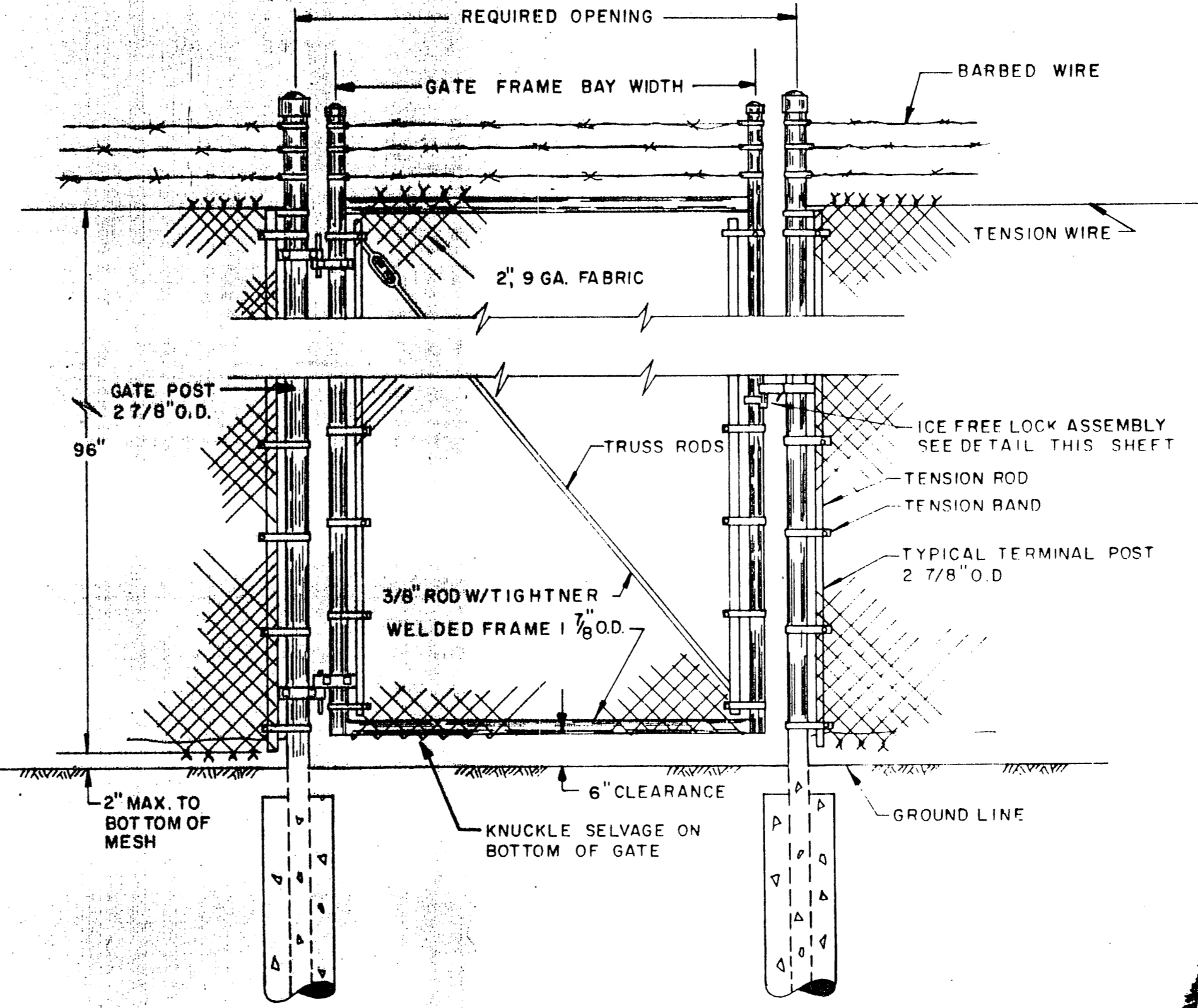
- NOTES:**
1. TYPICAL TOP FOR ALL LINE & PULL POSTS
 2. TENSION WIRE TO BE THREADED THROUGH EYE-TOP, AS SHOWN, ON ALL POSTS.

5'x4' PEDESTRIAN GATE



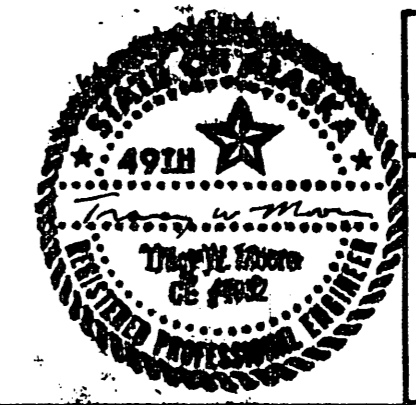
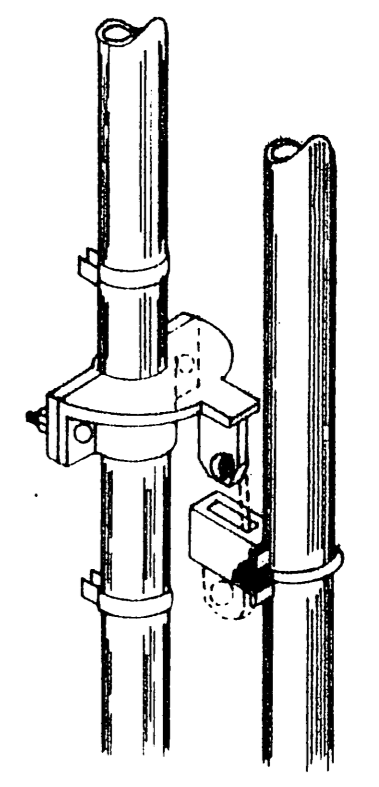
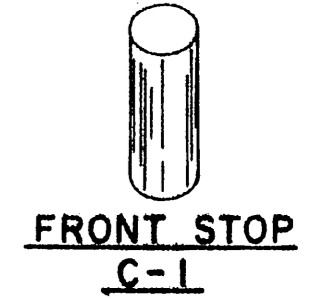
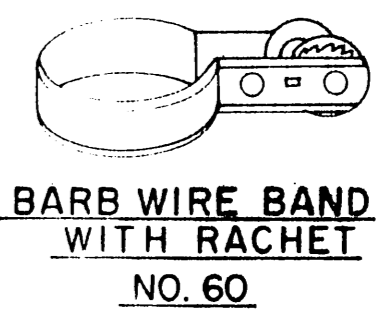
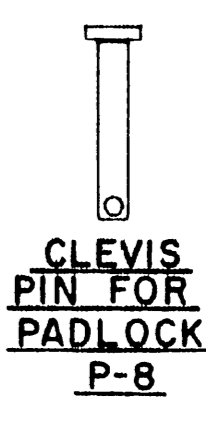
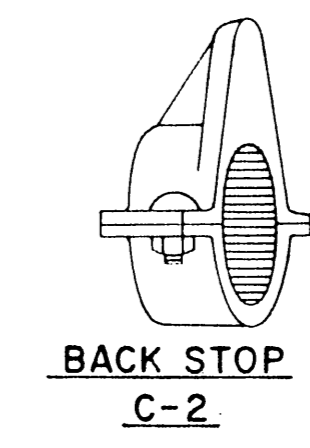
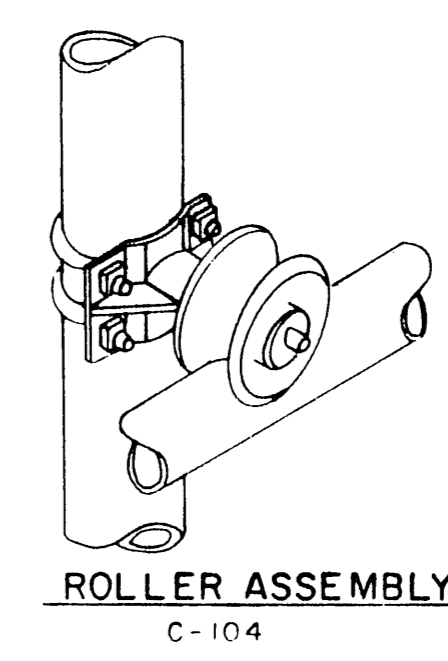
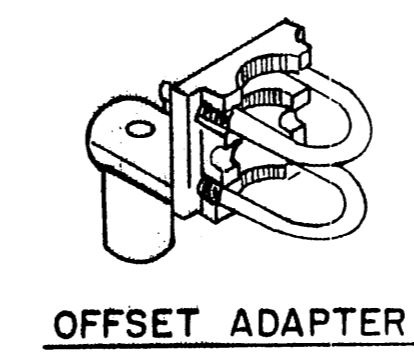
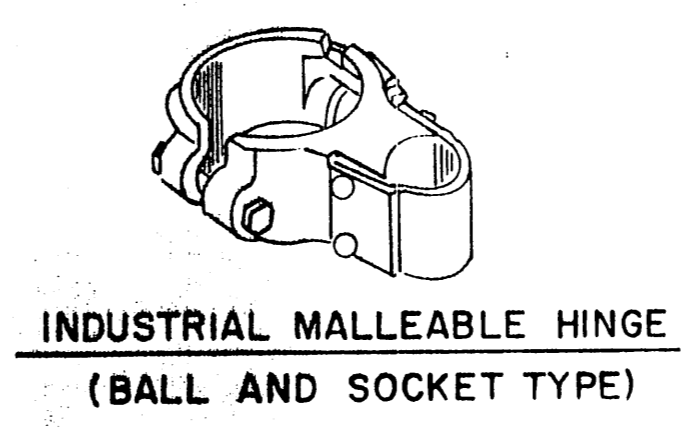
SPECIFICATIONS OF GATE FRAMES
TOP AND BOTTOM MEMBERS - 2 1/2" O.D. PIPE
UPRIGHT MEMBERS - 2" O.D. PIPE
HORIZONTAL AND DIAGONAL BRADS 1 5/8" O.D. PIPE
GATE FRAME MEMBERS SHALL BE SCHEDULE 40 PIPE

TYPICAL SLIDE GATE
NO SCALE



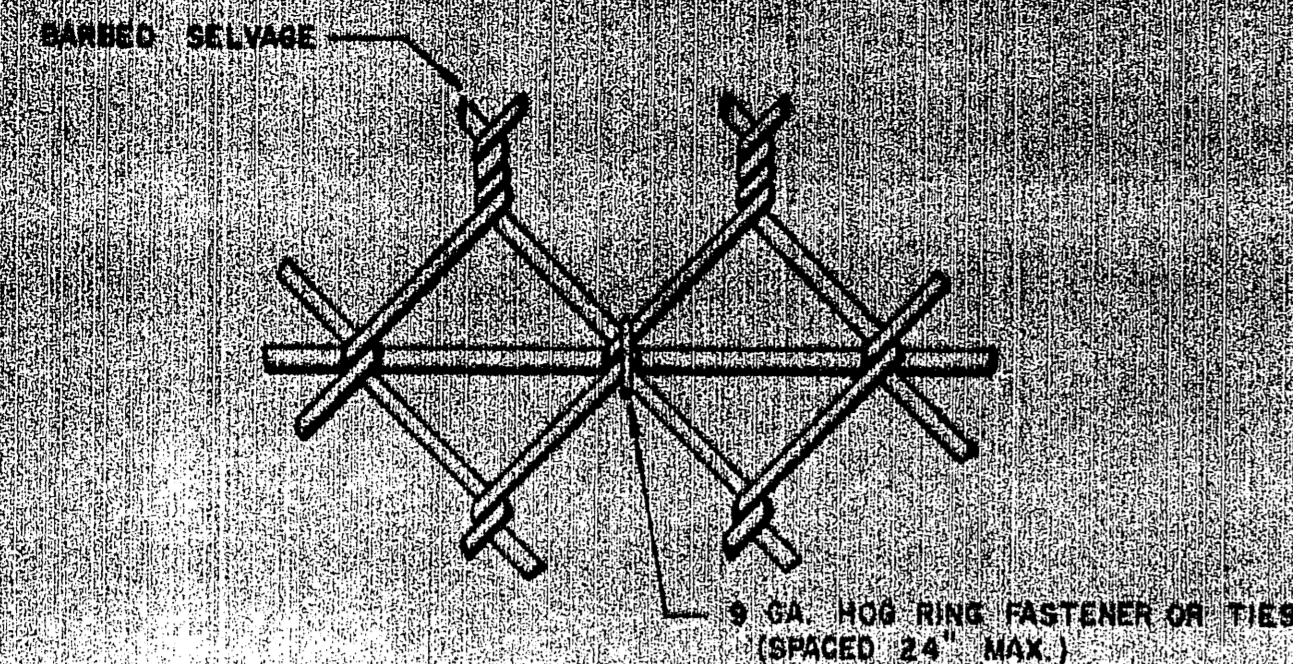
8'x4' TYPICAL PEDESTRIAN GATE

- NOTE:**
1. FOR GATE POST HEIGHT AND GATE FRAME BAY HEIGHT SEE TABLE 2 SHEET 6

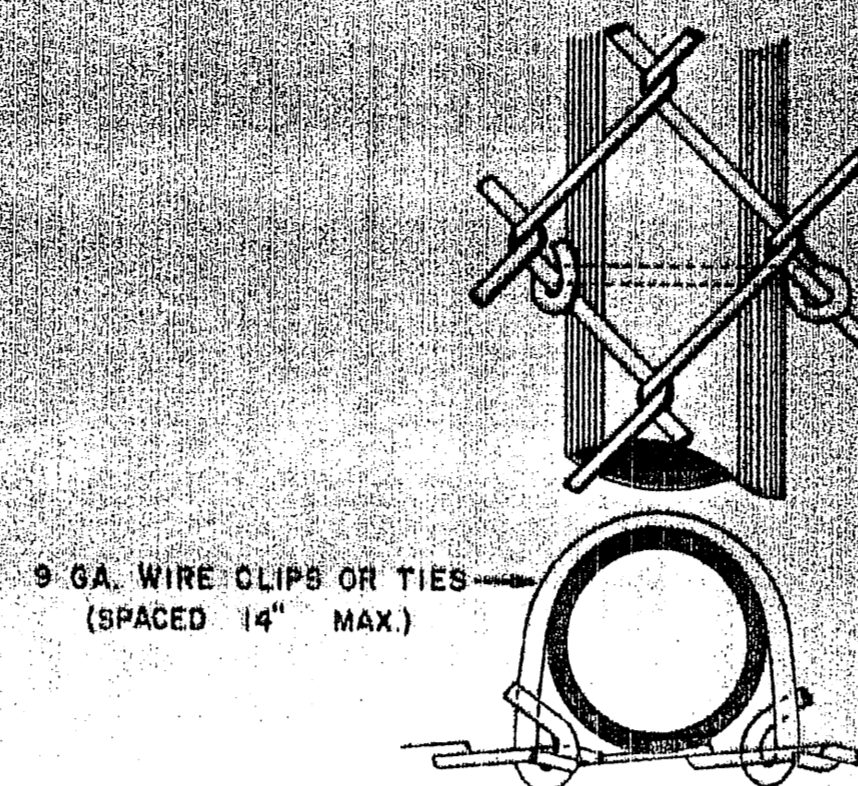


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
HAINES AIRPORT
PROJECT NO. 69523
GATE DETAILS

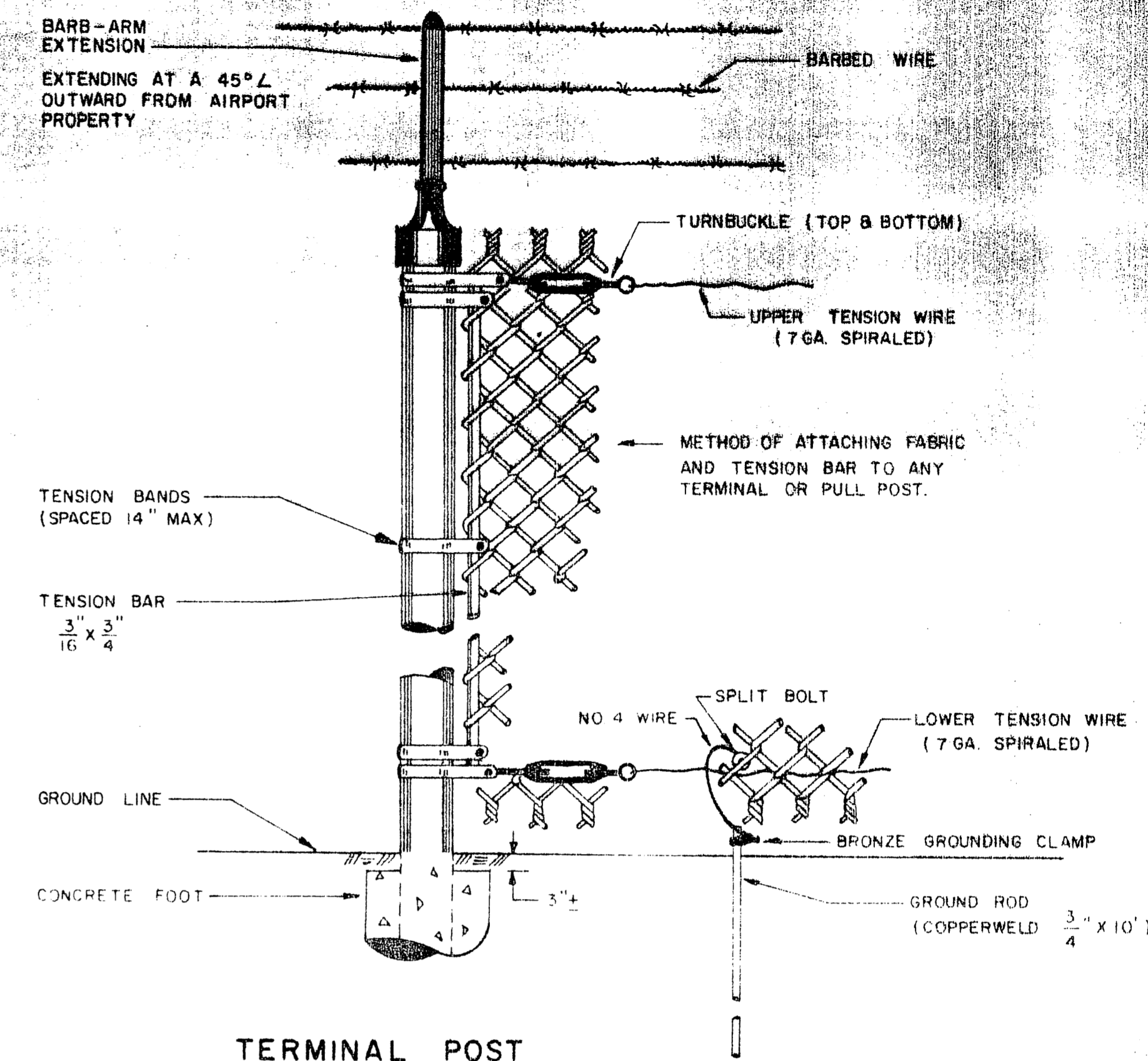
BY	DATE	CHANGE	REVISIONS	DESIGNED	DRAWN	CHECKED	DATE	SHEET
						C.H.		27 OF 39



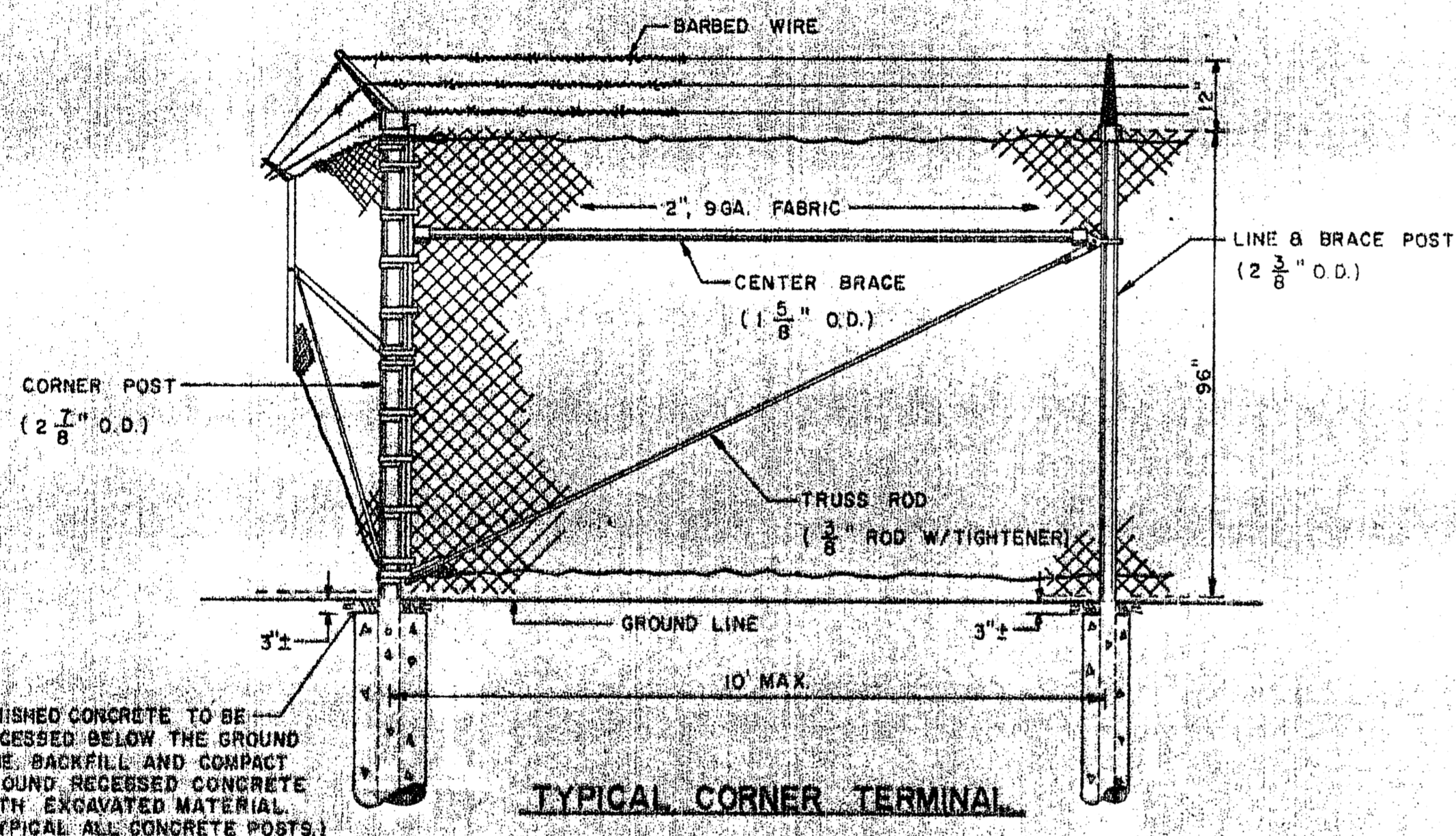
**TYPICAL METHOD OF TYING
FABRIC TO TENSION WIRE**



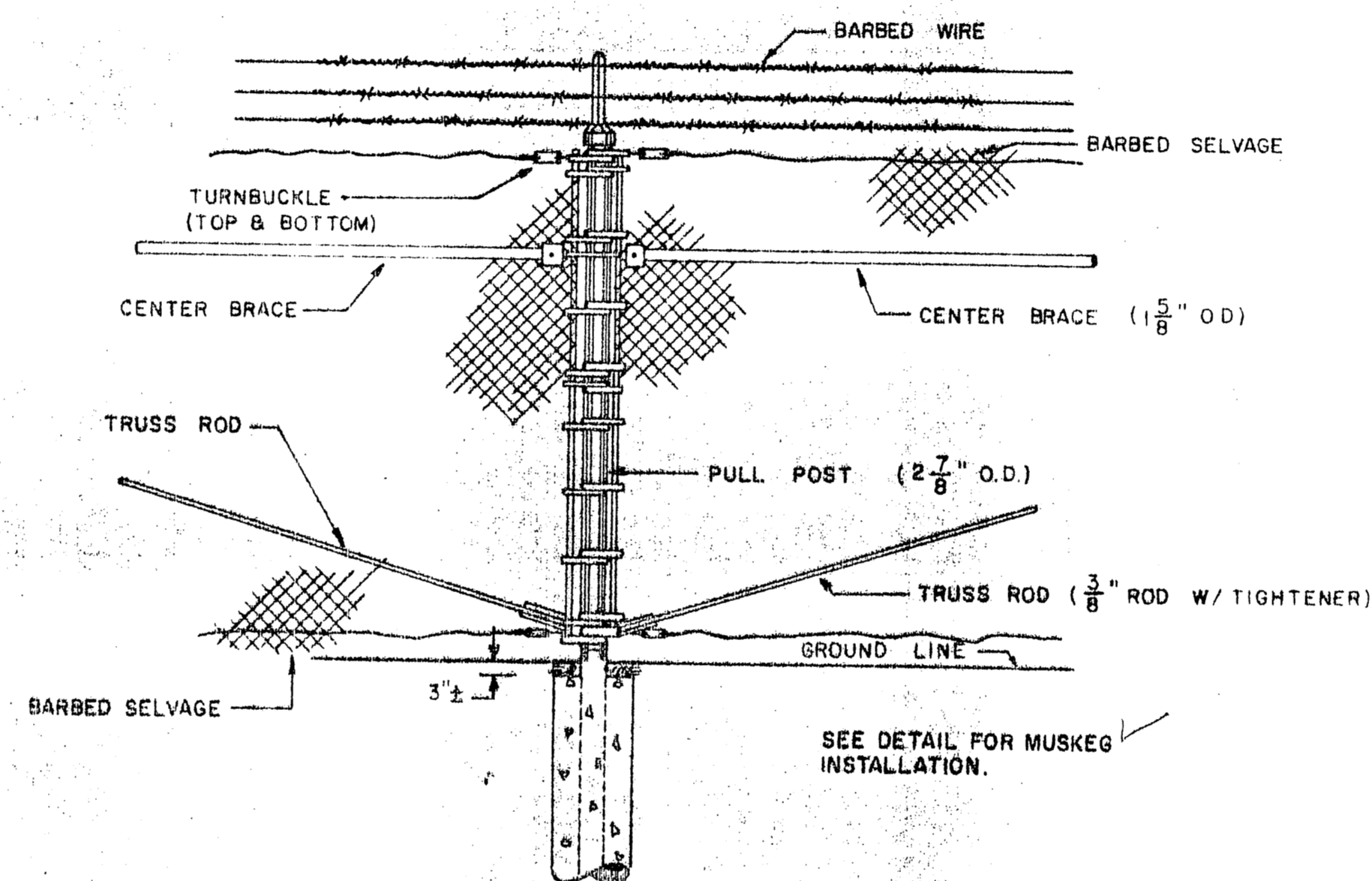
**TYPICAL METHOD OF TYING
FABRIC TO TUBULAR POSTS**



TERMINAL POST



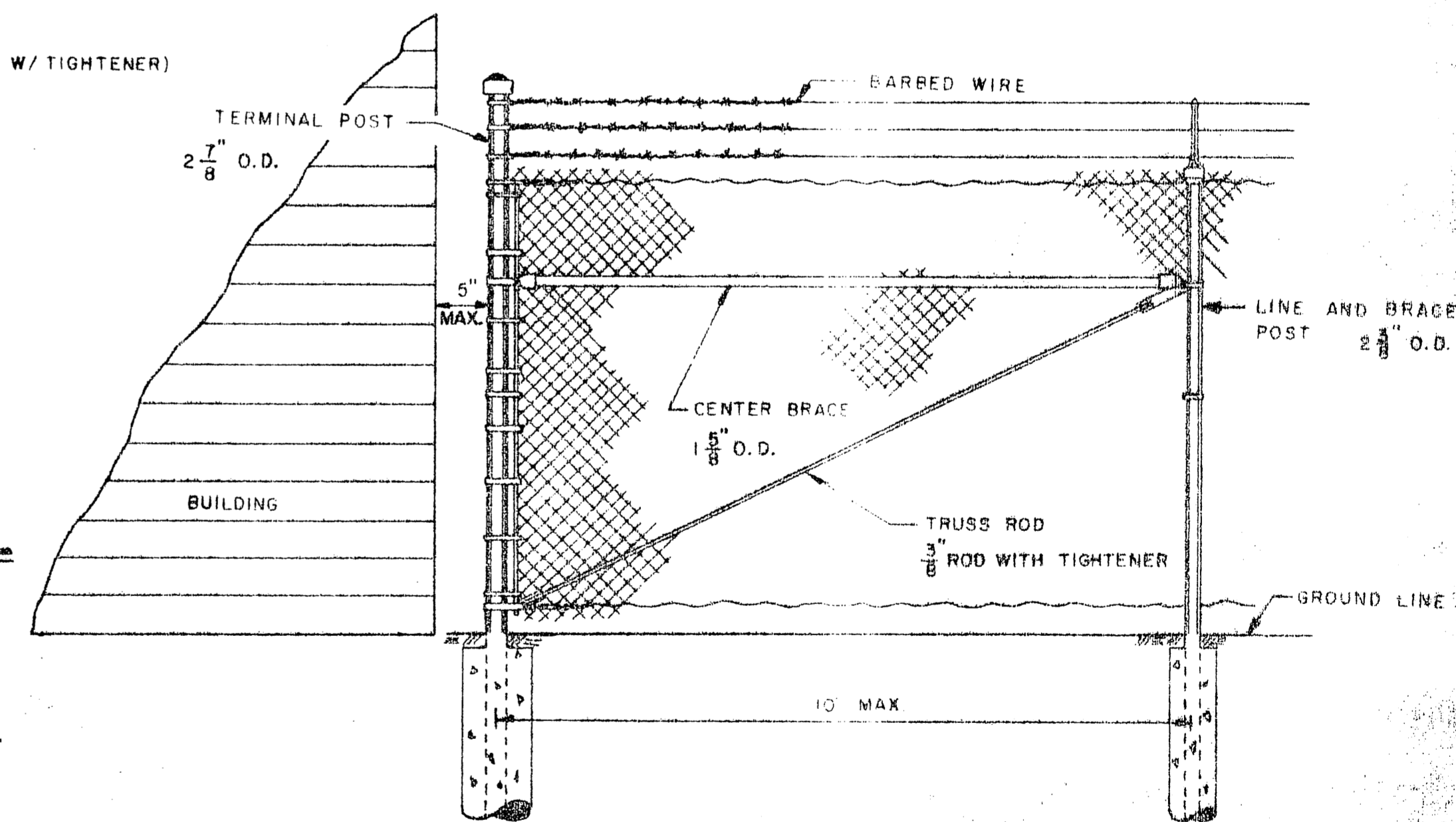
TYPICAL CORNER TERMINAL



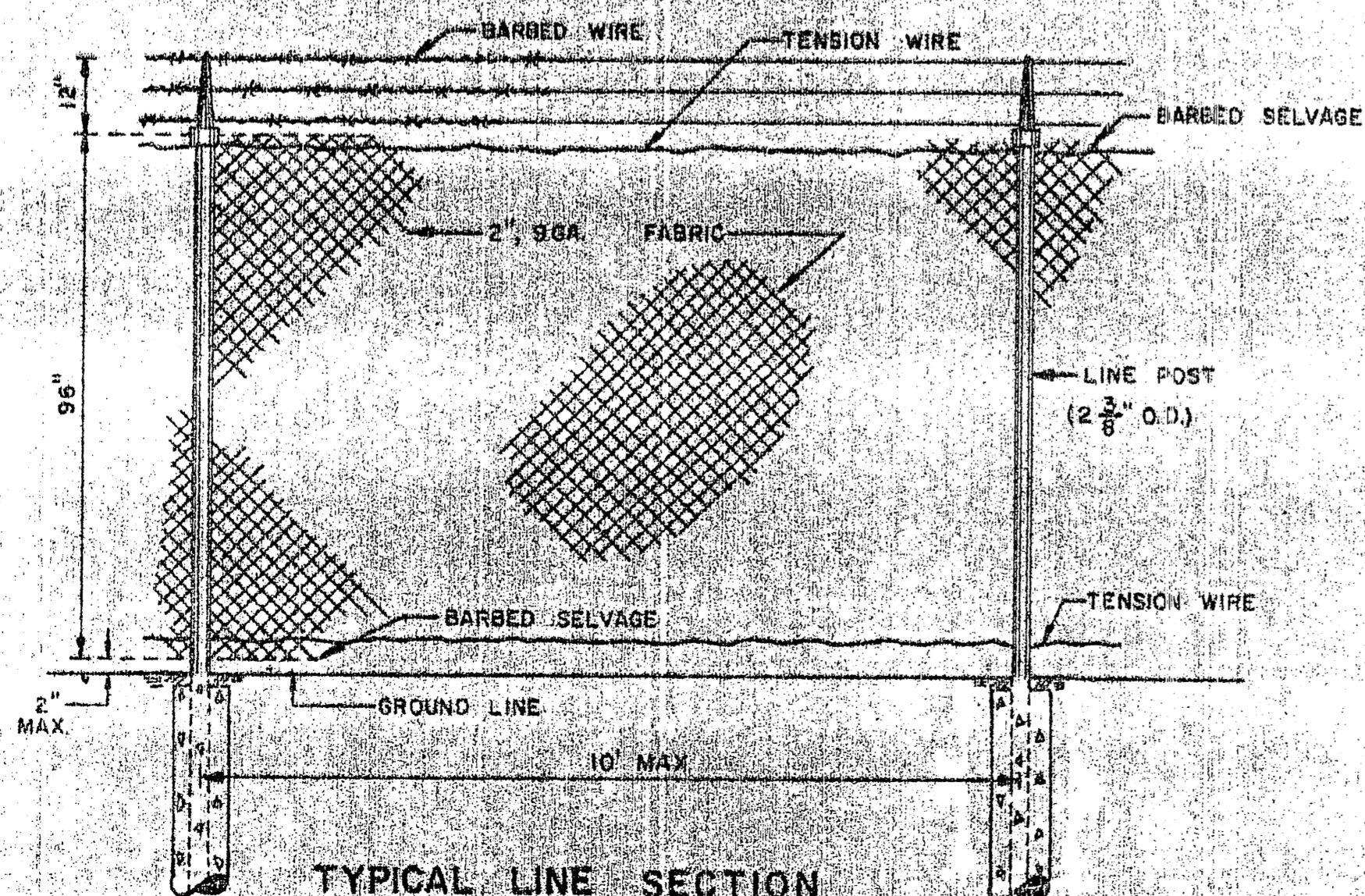
TYPICAL PULL POST

-GENERAL NOTES-

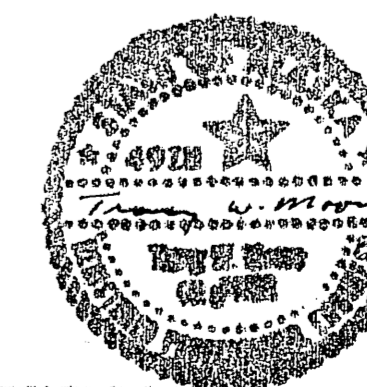
1. MAXIMUM LINE SPACING BETWEEN PULL POSTS = 120'-0".
2. PULL POST DETAILS SHOWN REQUIRED AT LINE SPACING LOCATIONS NOTED ABOVE SLOPE CHANGES GREATER THAN 15° OR A 4:1 SLOPE, AND CHANGES IN HORIZONTAL DIRECTION (CORNERS).
3. CONTRACTOR RESPONSIBLE FOR SUPPLYING CORRECT HARDWARE.
4. PIPE BRACES AND TRUSS RODS SHALL BE ATTACHED TO POSTS BEFORE FENCE FABRIC IS DRAPED AND DRAWN TAUGHT.



TYPICAL FENCE TERMINUS



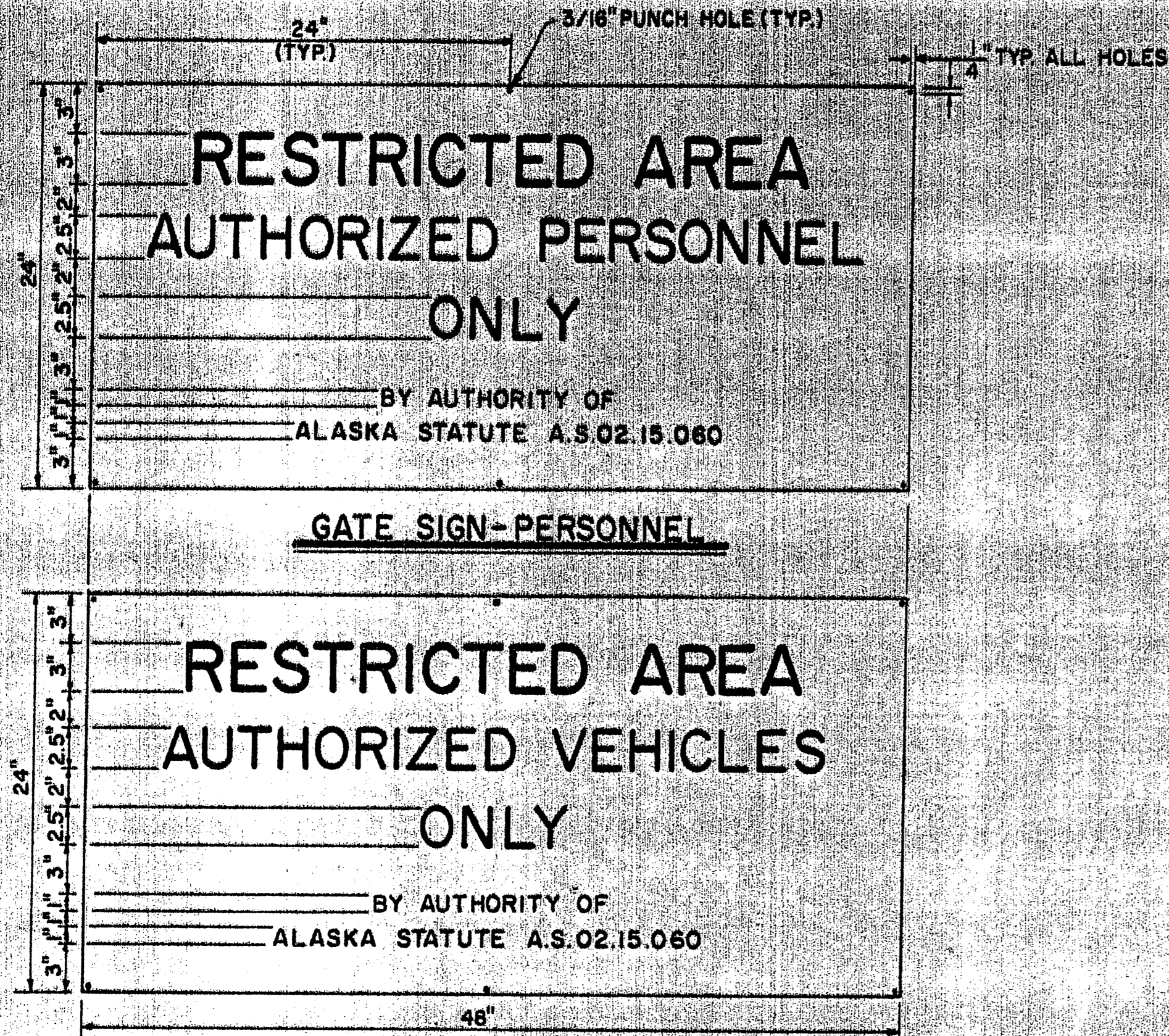
**TYPICAL LINE SECTION
AT PAVED SURFACE**



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HAINES AIRPORT
PROJECT NO. 69523
SECURITY FENCING
CHAIN-LINK FENCE DETAILS

DESIGNED	DATE	DRAWN	DATE	CHECKED	DATE	BY SIGN GROUP CHECKED
NONE				C.H.		
REVISIONS						PROJECT NUMBER
						2839

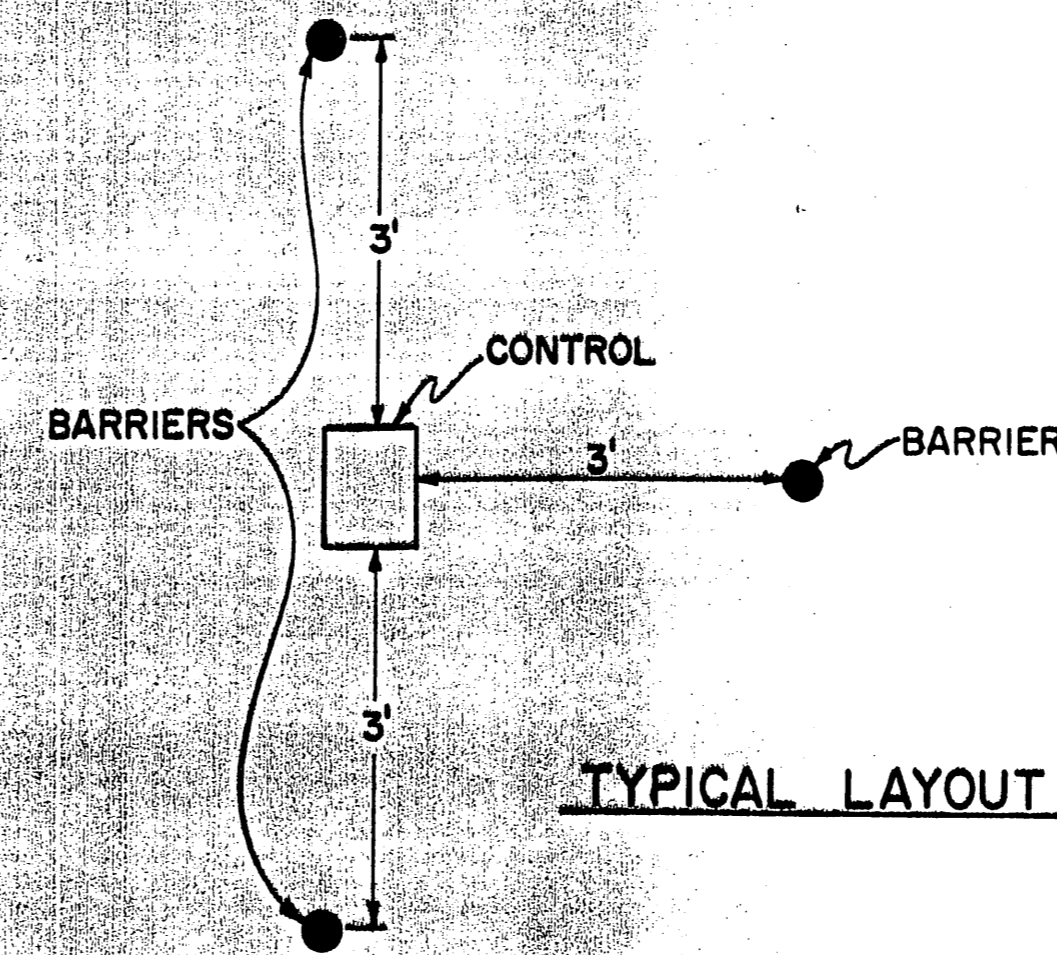


GATE SIGN - PERSONNEL

- NOTES:**
- SIGN PLATES SHALL HAVE ^{WHITE} RED REFLECTIVE SHEETING WITH WHITE LETTERING.
 - SIGN PLATES SHALL BE PLACED ON THE FENCE IMMEDIATELY ADJACENT TO GATES INSTALLED UNDER THIS CONTRACT, 4' ABOVE THE GROUND, EXCEPT SLIDE GATES WHICH SHALL HAVE SIGNS ATTACHED IN CENTER OF GATES.
 - "AUTHORIZED VEHICLES" SIGNS SHALL BE USED ON GATES FOR VEHICULAR ACCESS. "AUTHORIZED PERSONNEL" SIGNS SHALL BE USED ON GATES FOR PERSONNEL ACCESS. BOTH SIGNS SHALL BE USED WHERE VEHICLE / PERSONNEL COMBINATIONS OCCUR.
 - ALL SIGNS SHALL BE ATTACHED TO FENCE WITH 9 GAGE WIRE.

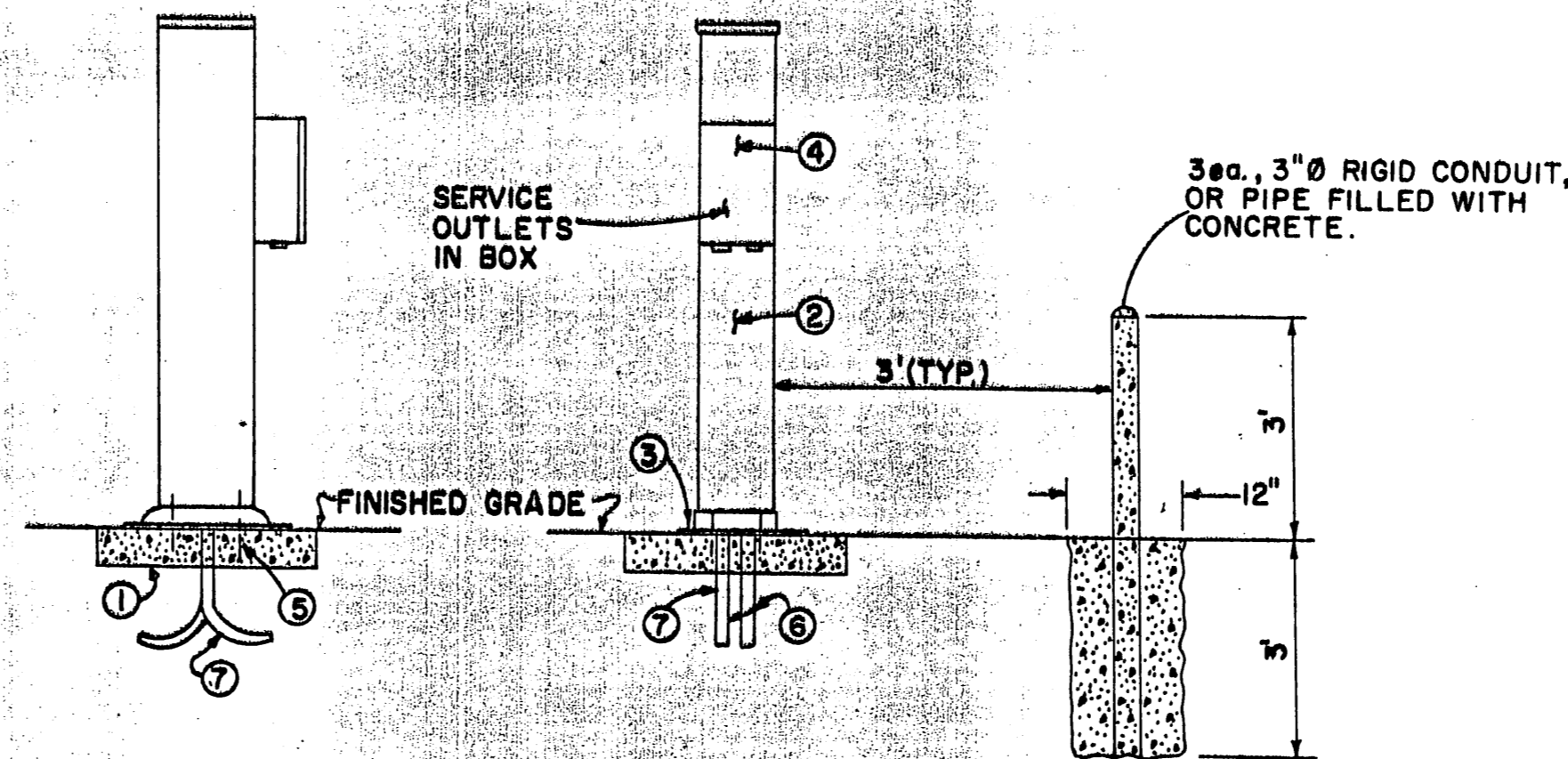


BOUNDARY SIGN PLATE DETAIL



TYPICAL LAYOUT

SLIDE GATE CONTROL DETAIL



ELECTRICAL PEDESTAL

TYP. BARRIER

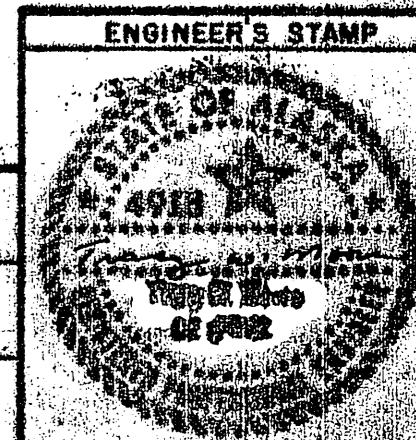
- 2'x2'x6" CONCRETE PAD.
- 8"x10" PEDESTAL.
- PEDESTAL BASE.
- CIRCUIT BREAKER & RECEPTACLE.
- MOUNT W/ 3/4" GALV. BOLTS & WASHERS.
- 1-1/2" RIGID STEEL CONDUIT W/ 90° ELBOW FOR # 2-600V. CABLE.
- 1-1/2" CONDUIT TO ELECTRIC GATE.

NO.	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

PROJECT NO. 69523
HAINES AIRPORT
SECURITY FENCING
SIGNS AND DETAILS

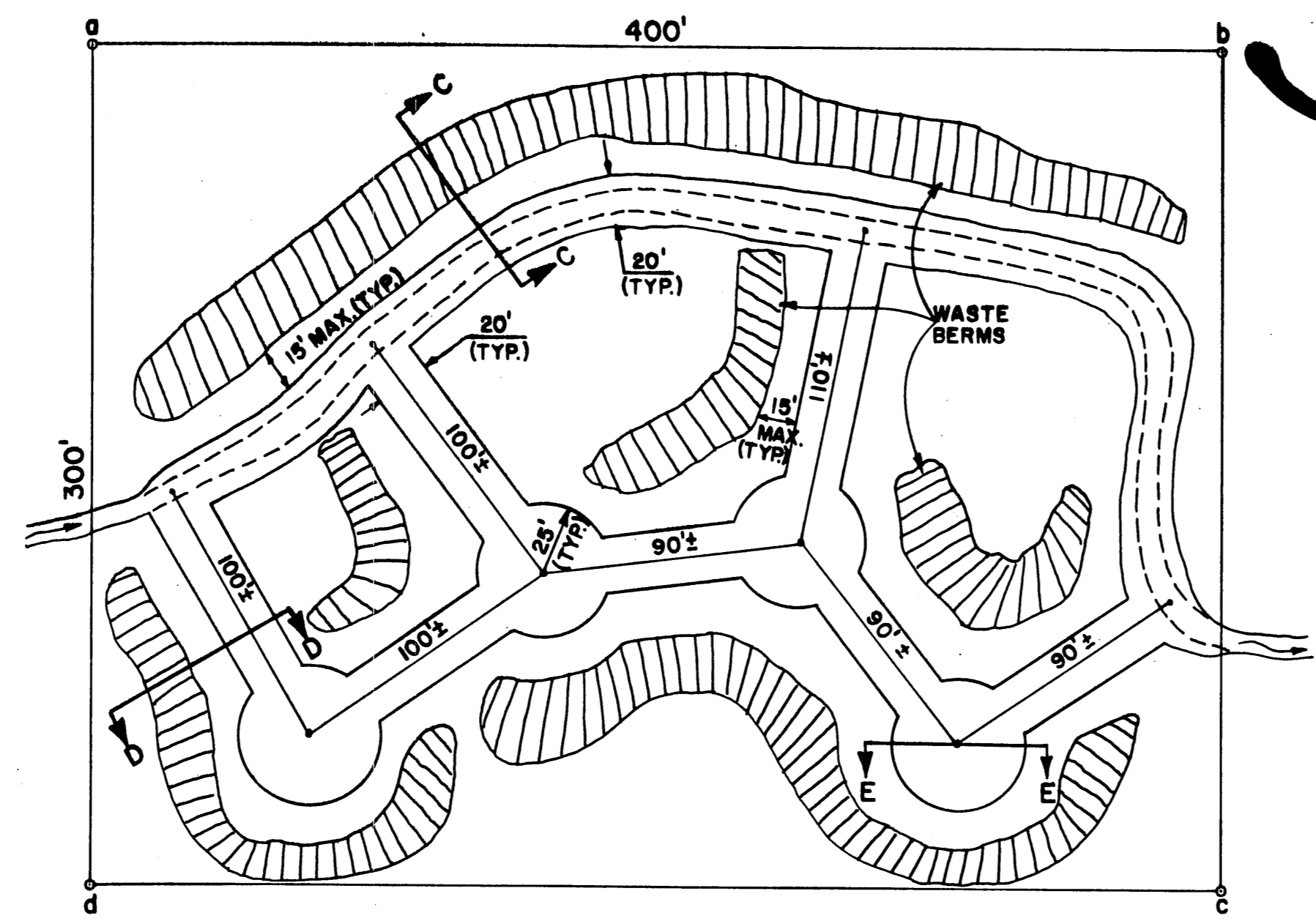
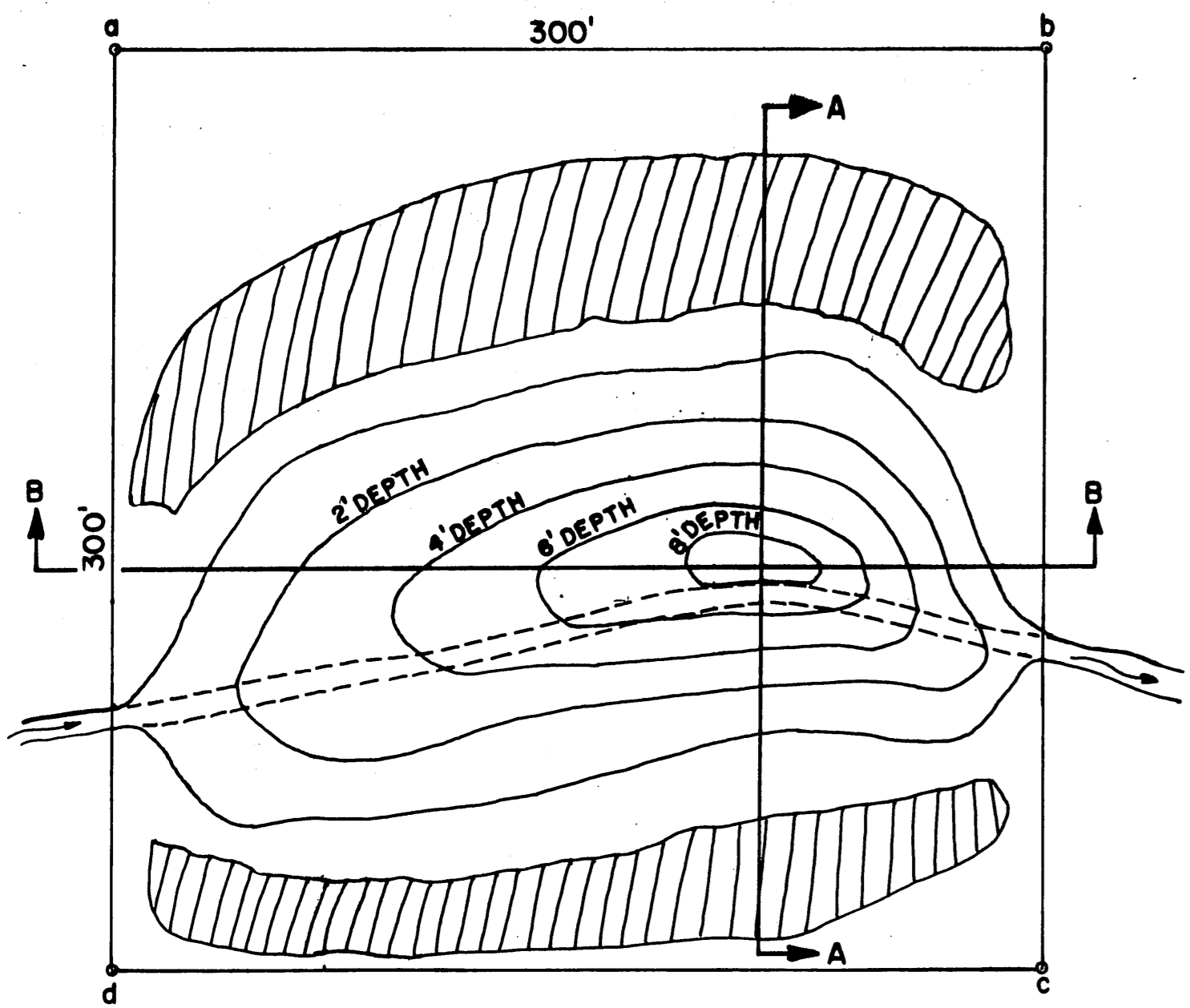
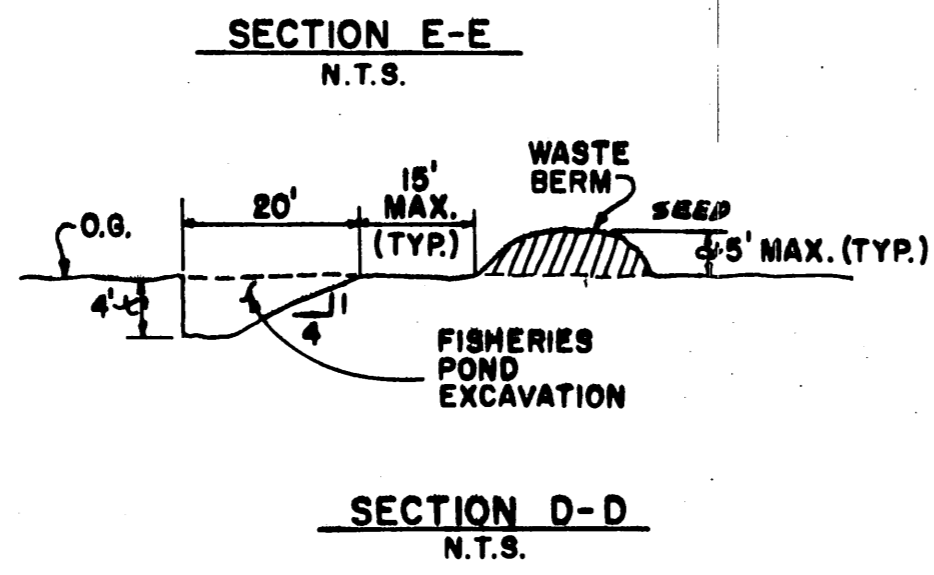
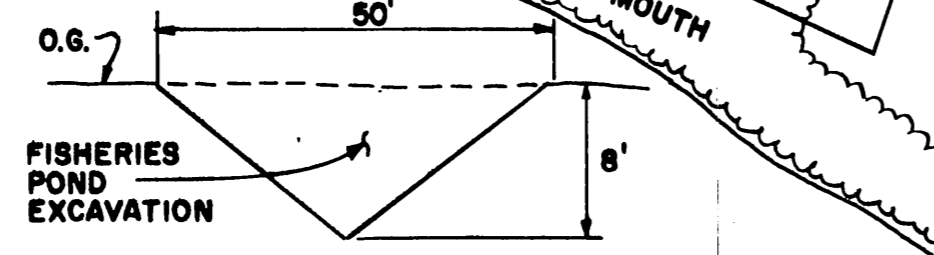
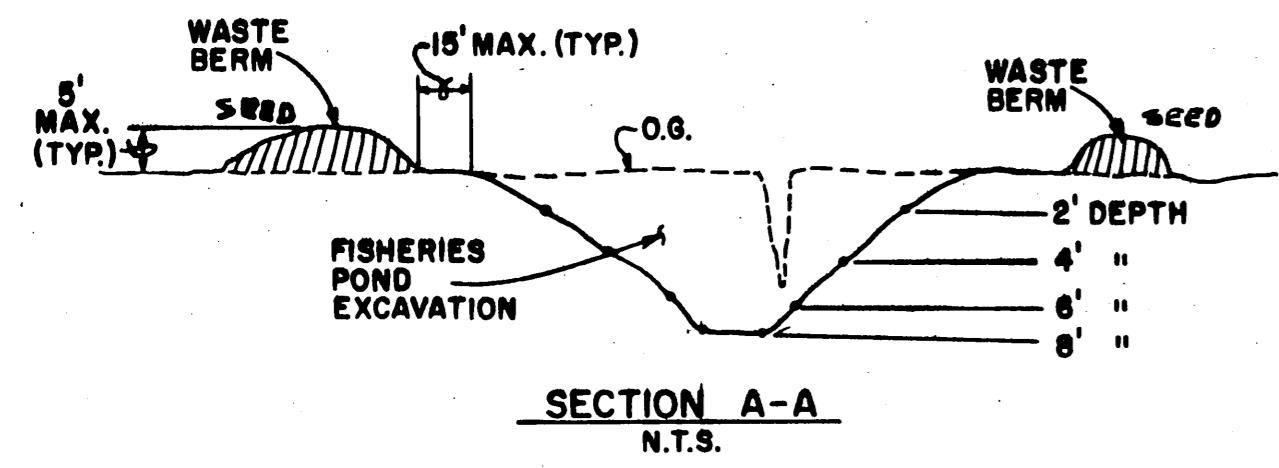
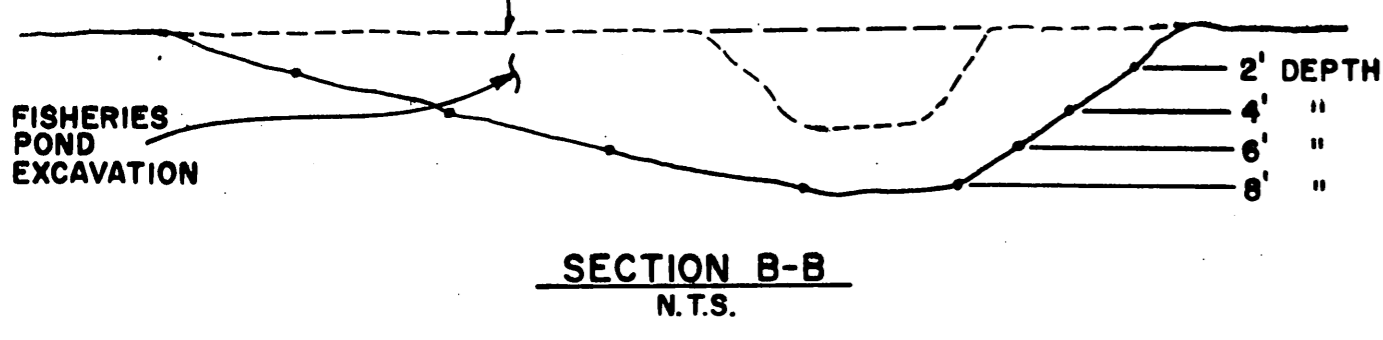
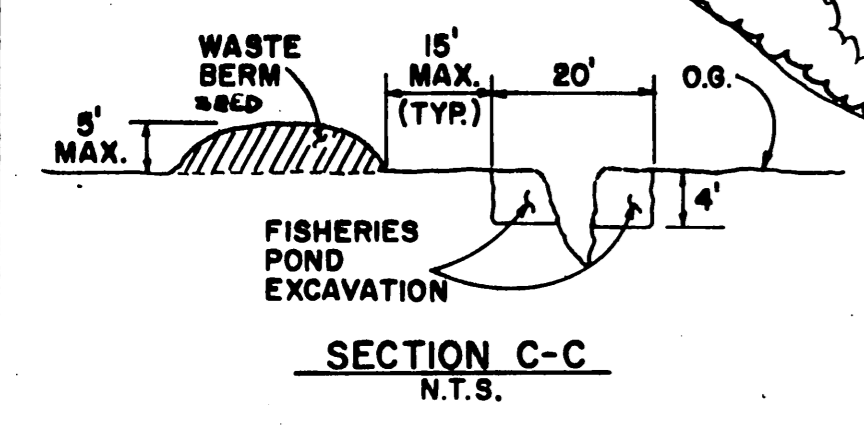
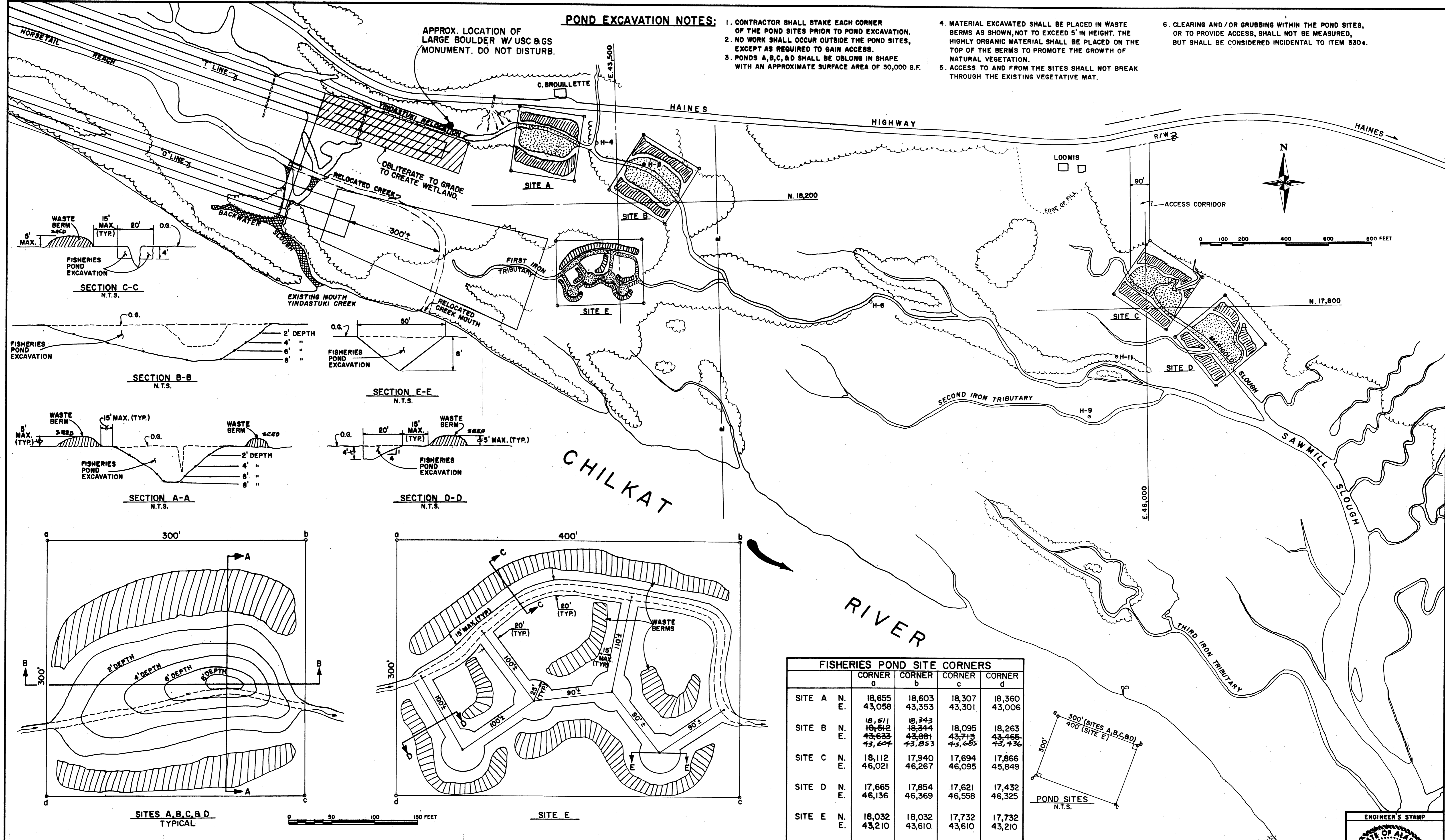
APPROVED BY:	DESIGNED BY:	SCALE:
		NONE
RECOMMENDED BY:	DRAWN BY:	DATE:
	B. A.	
PREPARED BY:	CHECKED BY:	SHEET 29 OF 39
	C. H.	



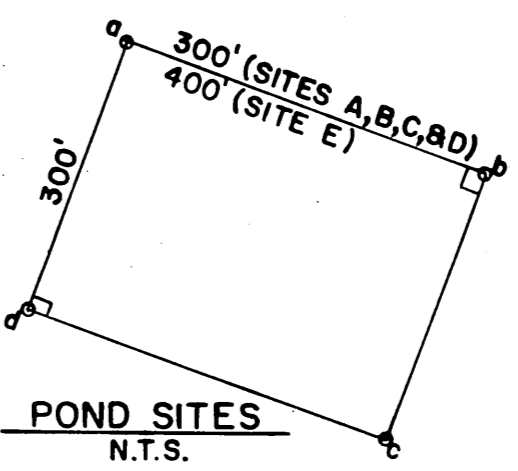
POND EXCAVATION NOTES:

1. CONTRACTOR SHALL STAKE EACH CORNER OF THE POND SITES PRIOR TO POND EXCAVATION.
2. NO WORK SHALL OCCUR OUTSIDE THE POND SITES, EXCEPT AS REQUIRED TO GAIN ACCESS.
3. PONDS A, B, C, & D SHALL BE OBLONG IN SHAPE WITH AN APPROXIMATE SURFACE AREA OF 30,000 S.F.
4. MATERIAL EXCAVATED SHALL BE PLACED IN WASTE BERMS AS SHOWN, NOT TO EXCEED 5' IN HEIGHT. THE HIGHLY ORGANIC MATERIAL SHALL BE PLACED ON THE TOP OF THE BERMS TO PROMOTE THE GROWTH OF NATURAL VEGETATION.
5. ACCESS TO AND FROM THE SITES SHALL NOT BREAK THROUGH THE EXISTING VEGETATIVE MAT.
6. CLEARING AND/OR GRUBBING WITHIN THE POND SITES, OR TO PROVIDE ACCESS, SHALL NOT BE MEASURED, BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 330.

APPROX. LOCATION OF LARGE BOULDER W/ USC 8 GS MONUMENT. DO NOT DISTURB.



FISHERIES POND SITE CORNERS				
	CORNER a	CORNER b	CORNER c	CORNER d
SITE A	N. 18,655	18,603	18,307	18,360
	E. 43,058	43,353	43,301	43,006
SITE B	N. 18,511	18,343	18,095	18,263
	E. 43,633	43,881	43,713	43,465
SITE C	N. 18,112	17,940	17,694	17,866
	E. 46,021	46,267	46,095	45,849
SITE D	N. 17,665	17,854	17,621	17,432
	E. 46,136	46,369	46,558	46,325
SITE E	N. 18,032	18,032	17,732	17,732
	E. 43,210	43,610	43,610	43,210



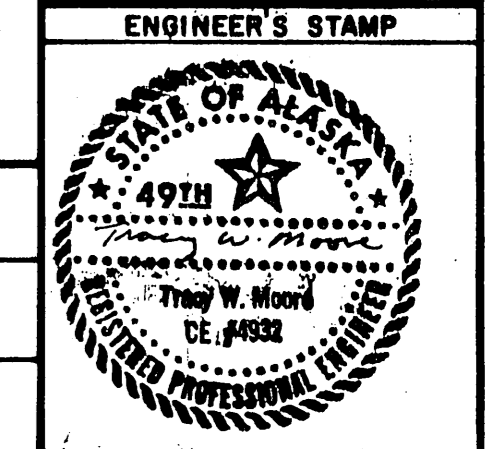
BY	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

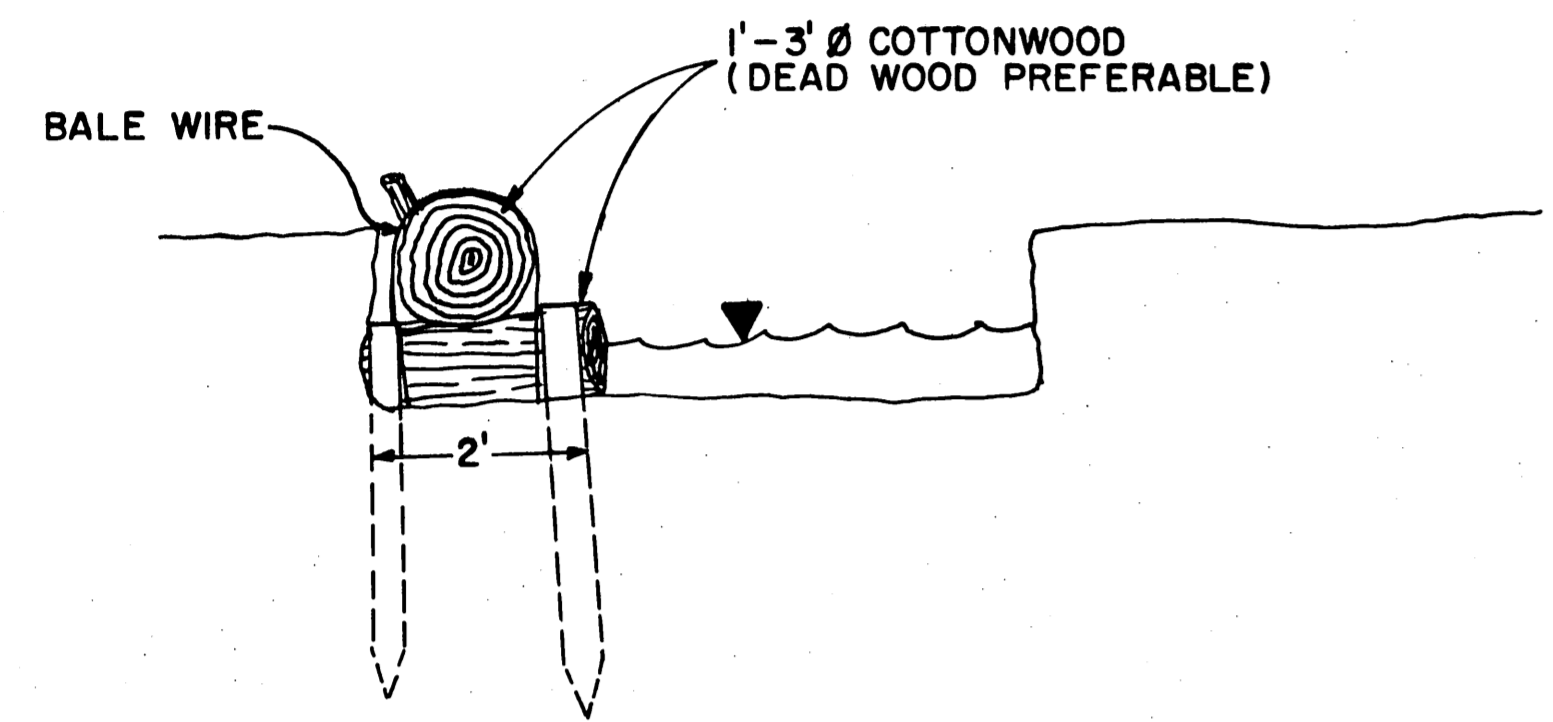
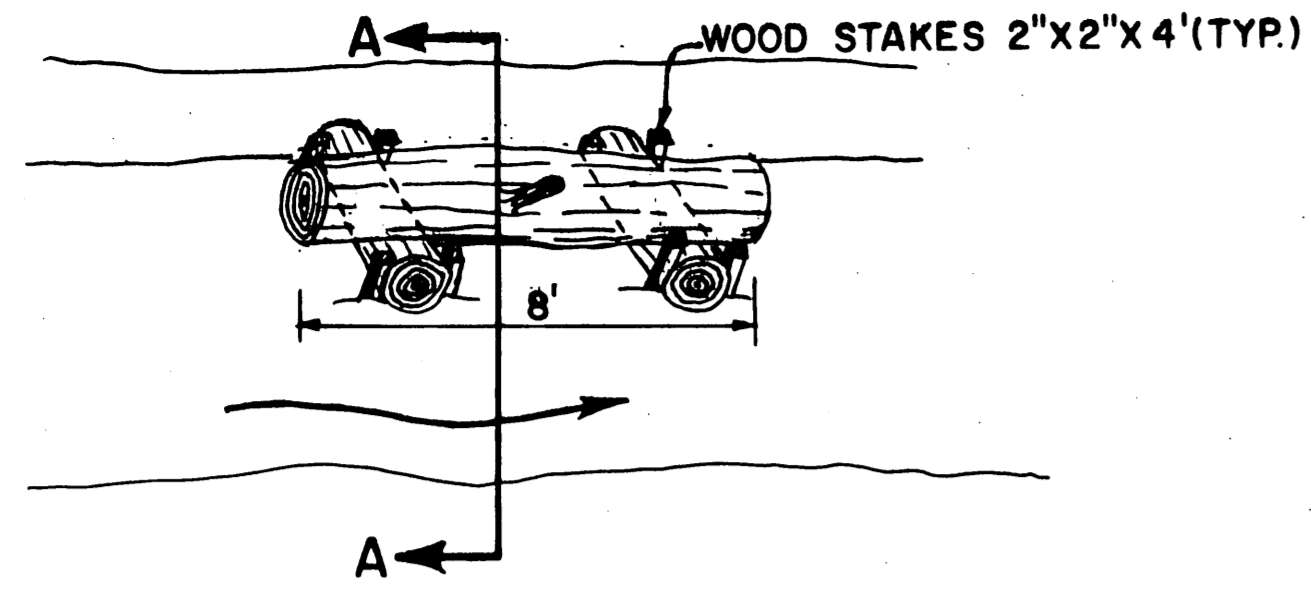
HAINES AIRPORT
FISHERIES PONDS

APPROVED BY: _____
DESIGNED BY: T.M.
RECOMMENDED BY: _____
DRAWN BY: W.D.A.
PREPARED BY: _____
CHECKED BY: C.H.

SCALE: _____
DATE: 1-25-90
SHEET 31 OF 39



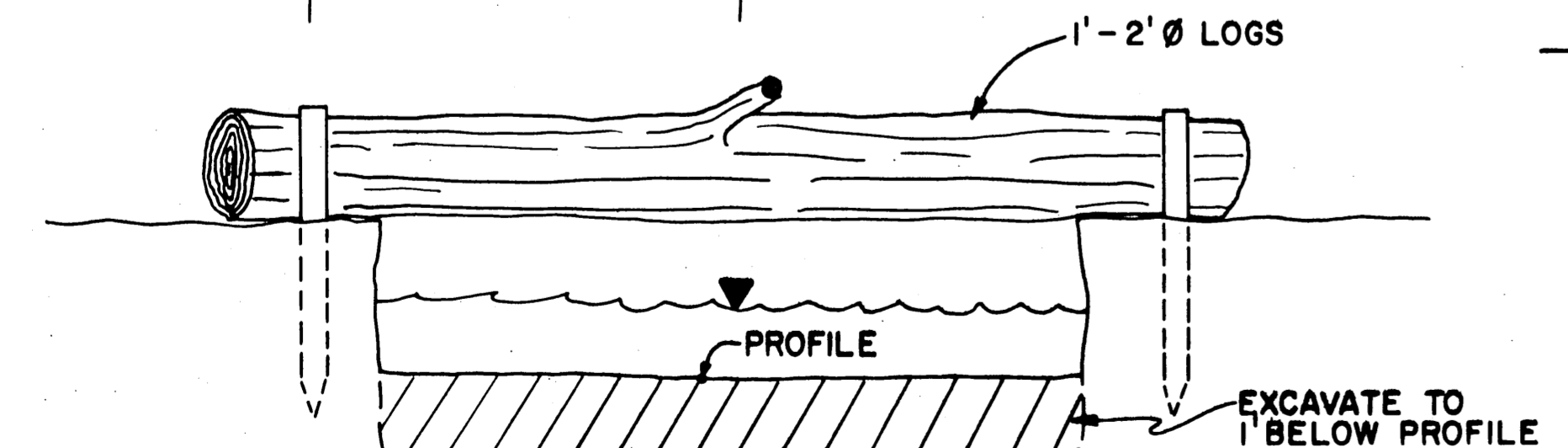
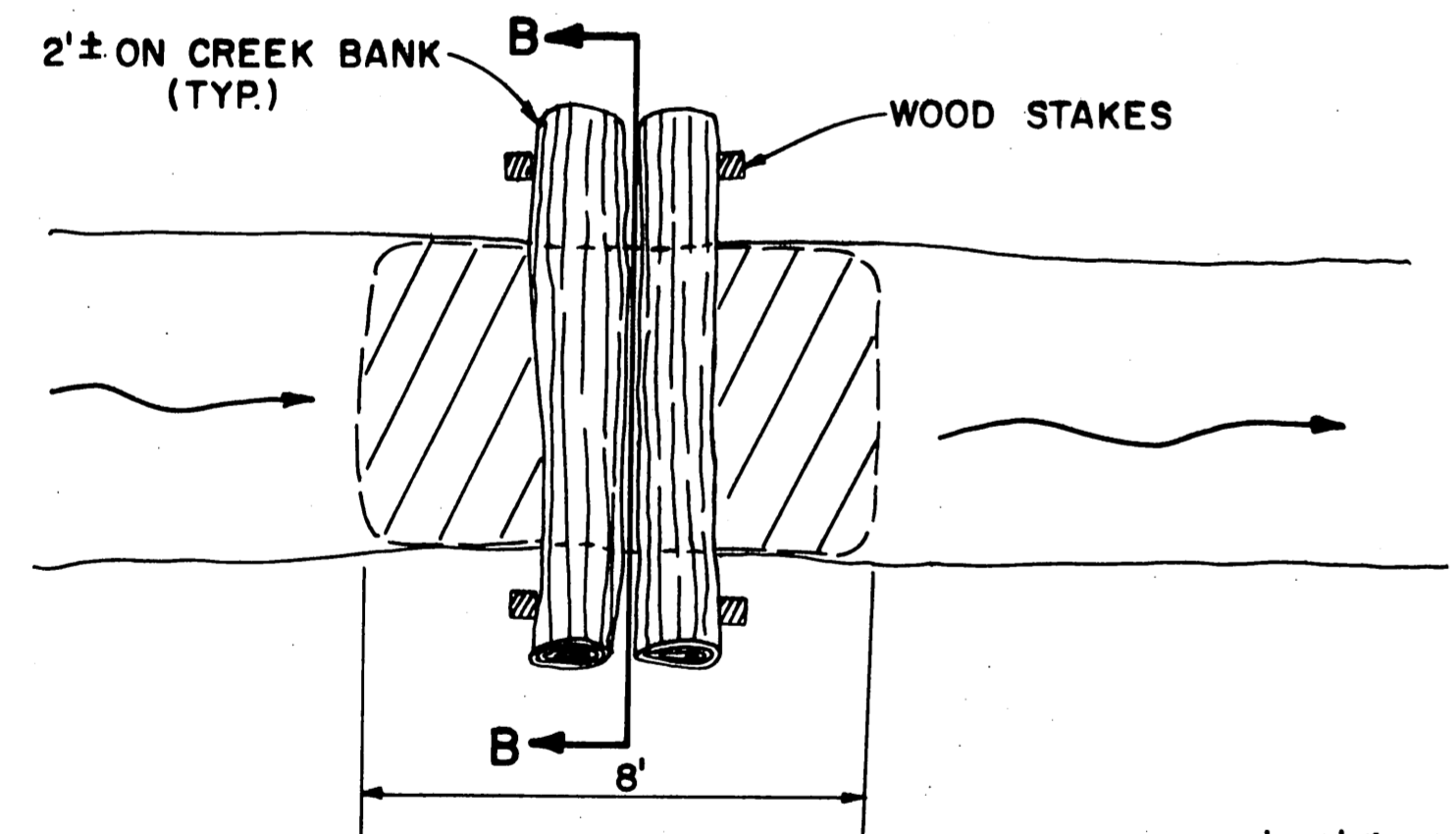
LARGE WOODY DEBRIS



INSTALL EVERY 50' ON ALTERNATE SIDES OF CREEK.

SECTION A-A

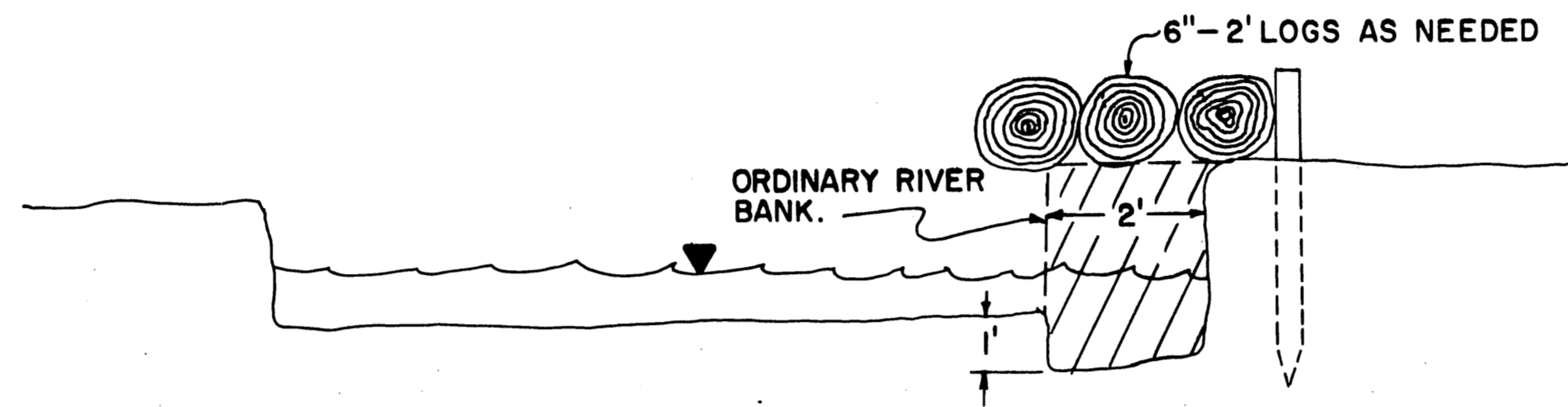
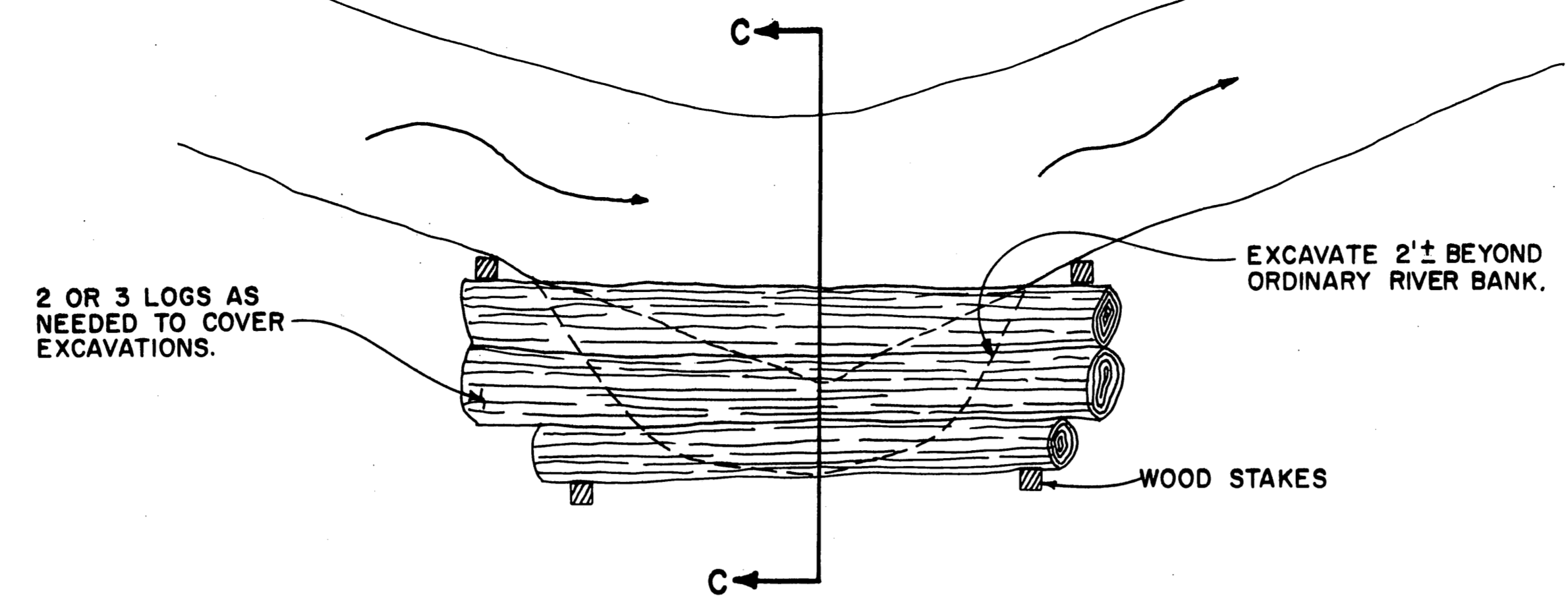
OVERHANGING LOGS



INSTALL EVERY 200' ON CREEK, BETWEEN LARGE WOODY DERBIS.

SECTION B-B

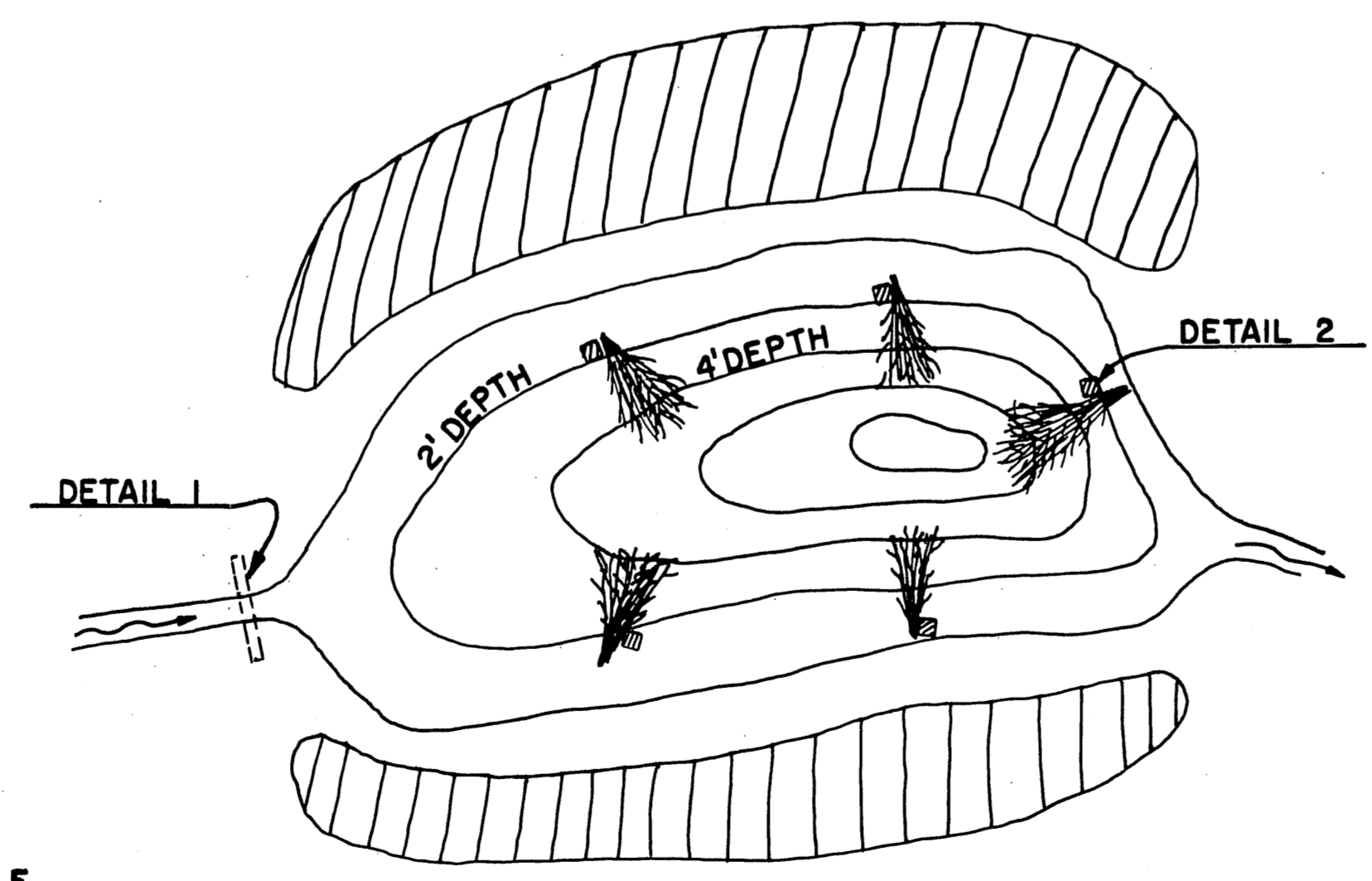
UNDERCUT BANK



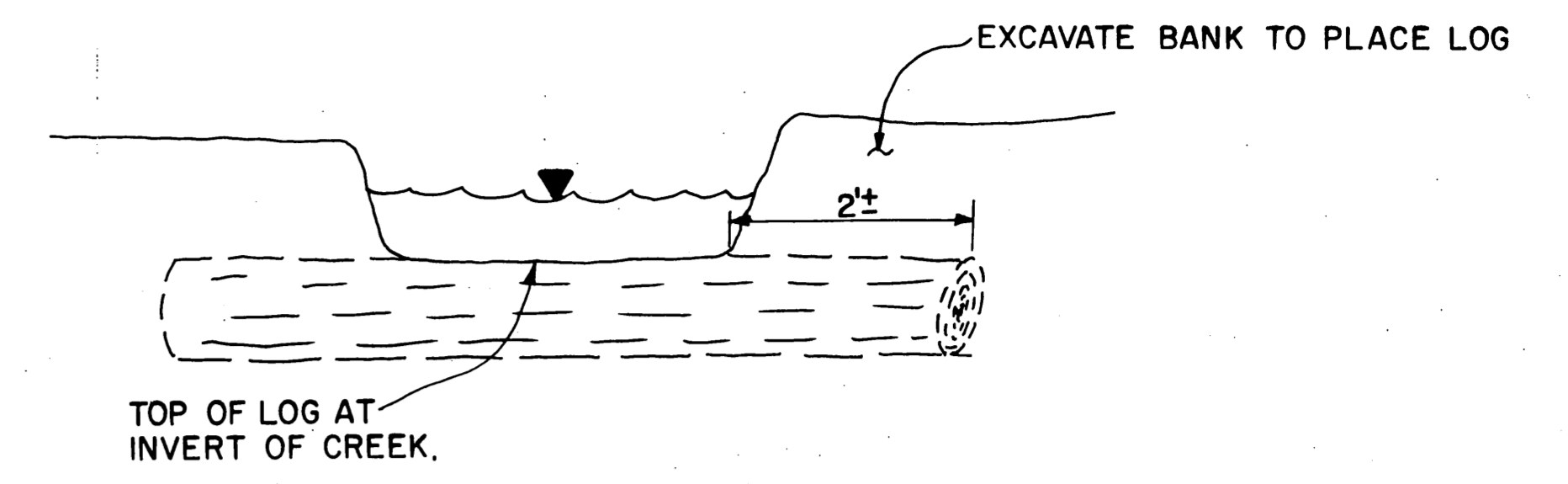
INSTALL AT EACH ANGLE POINT ON CREEK.

SECTION C-C

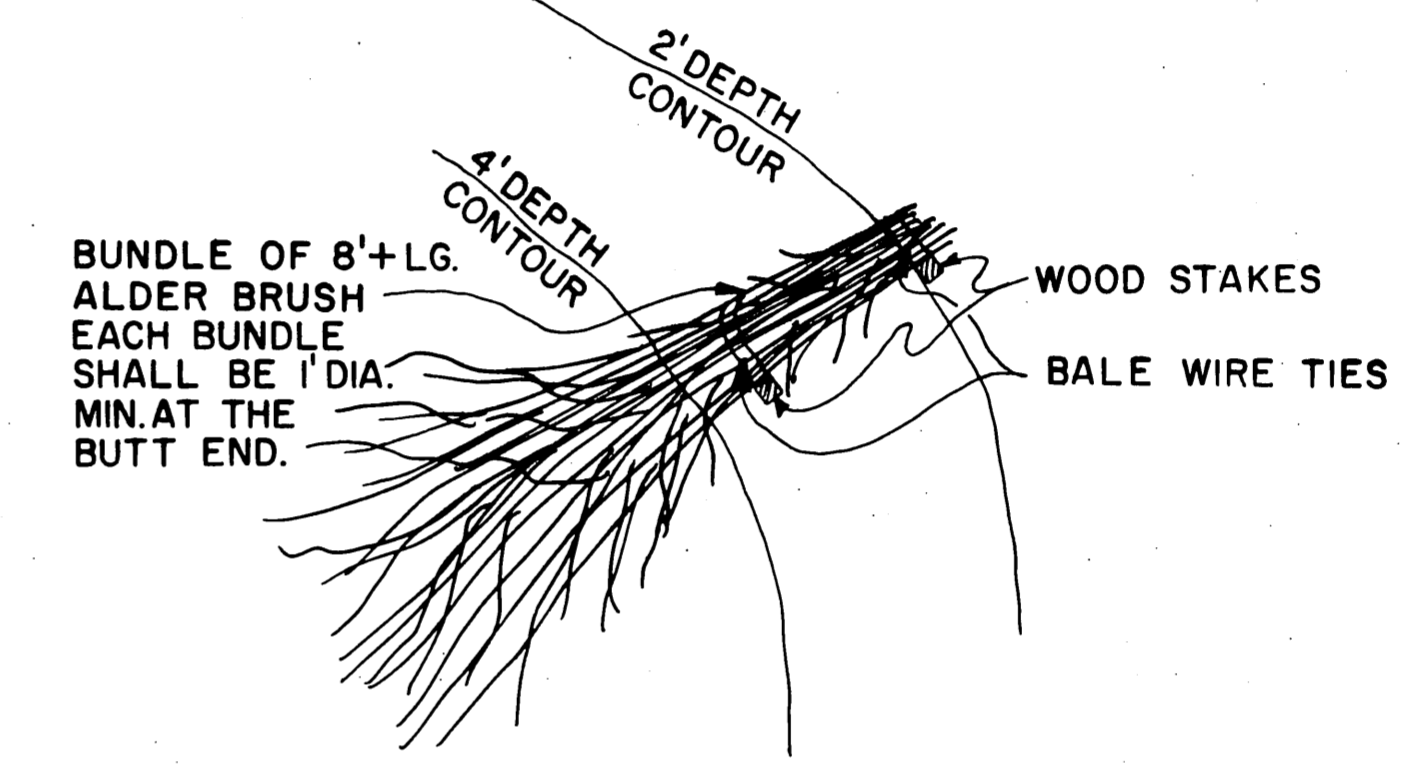
POND ENHANCEMENT (TYPICAL)



DETAIL 1 EROSION BARRIER



DETAIL 2 TEMPORARY COVER



SPACE 5 BUNDLES AROUND EACH POND.

- NOTES:**
1. THE LARGE WOODY DEBRIS, UNDERCUT BANK, OVERHANG LOGS, AND EROSION BARRIER DETAILS SHALL BE USED ON ALL CREEK & DITCH RELOCATIONS / NEW CONSTRUCTIONS.
 2. TEMPORARY COVER SHALL BE USED ON ALL FISHERY POND LOCATIONS.

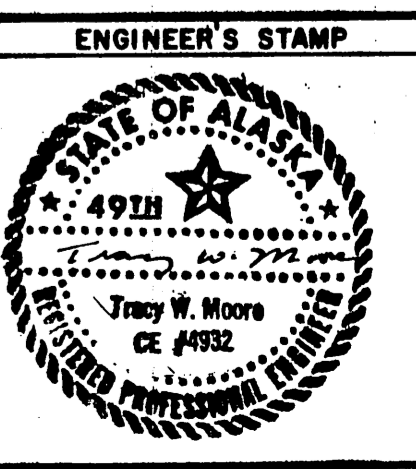
BY	DATE	DESCRIPTION OF CHANGE
RECORD OF REVISIONS		

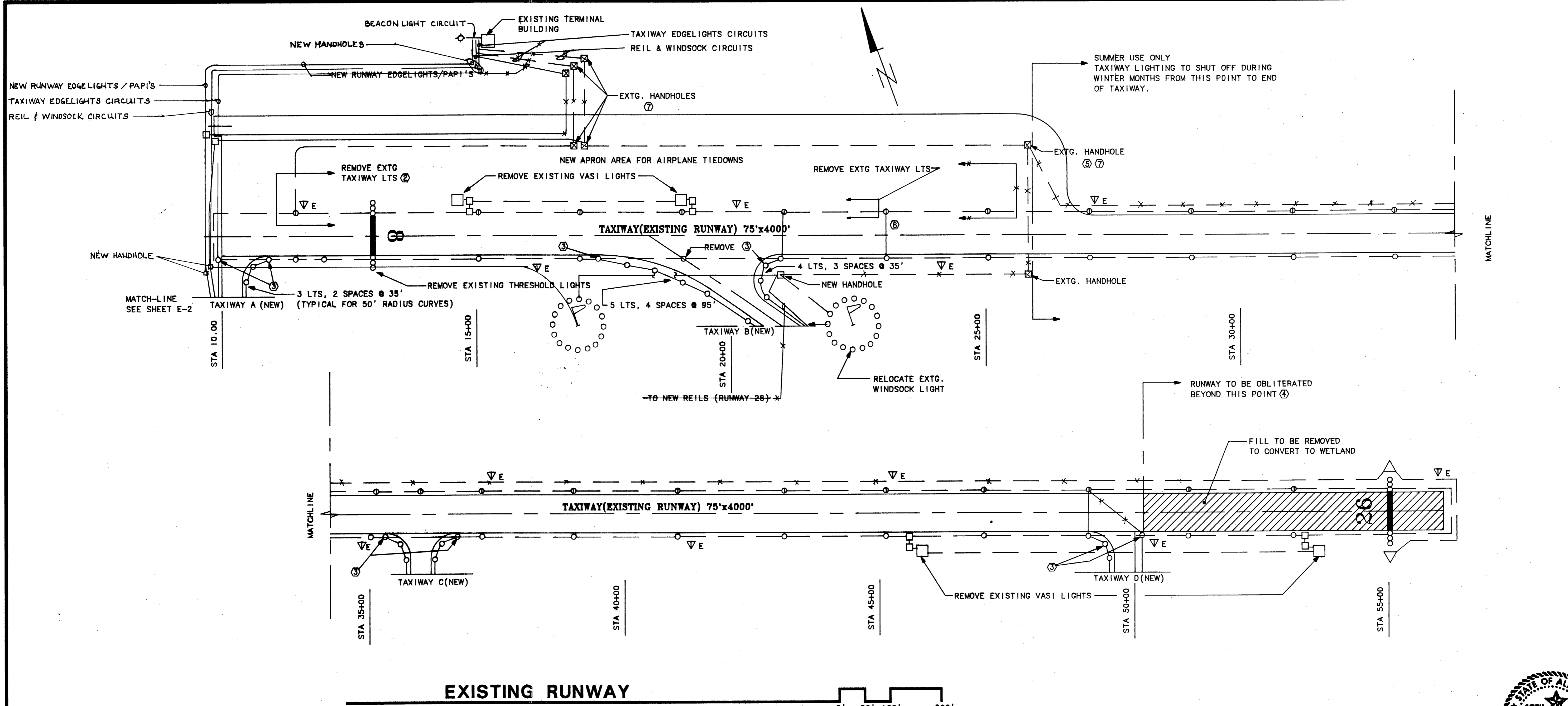
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES AIRPORT
 YINDASTUKI CREEK ENHANCEMENT

APPROVED BY:	DESIGNED BY:	SCALE:
DESIGN GROUP CHIEF	T.M.	NONE
RECOMMENDED BY:	DRAWN BY:	DATE:
DESIGN ENGINEER, GROUP	B.A.	
PREPARED BY:	CHECKED BY:	
PROJECT MANAGER	C.H.	

SHEET 32 OF 39





EXISTING RUNWAY

SCALE: 1"=100' 0' 50' 100' 200'

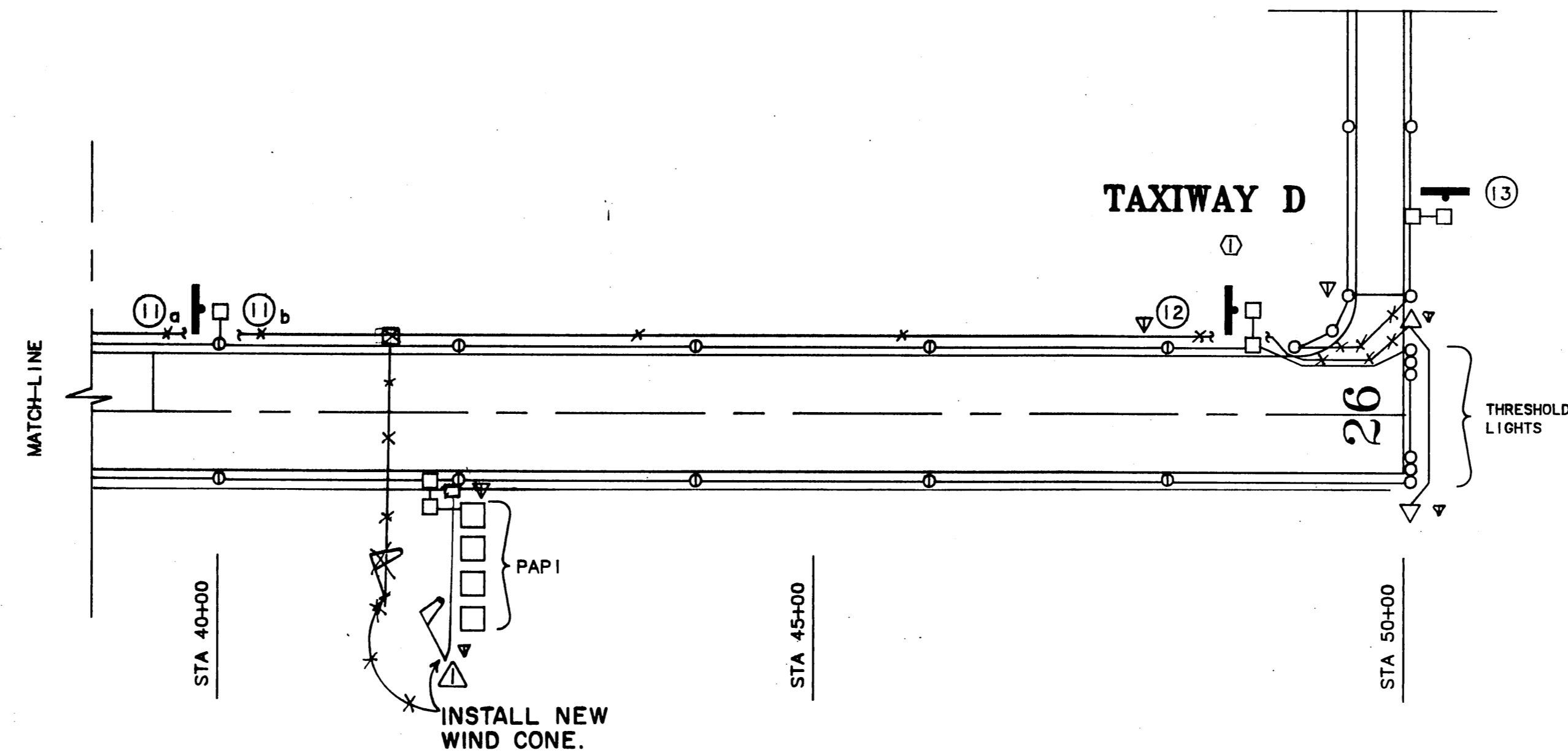
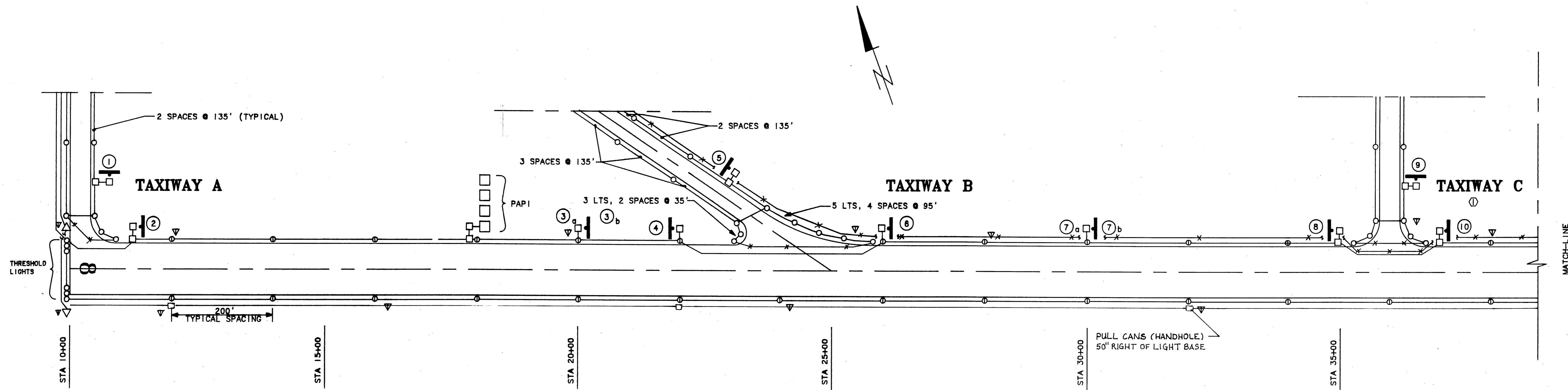
LEGEND	
—○—	EXISTING CONDUIT WITH EXISTING RUNWAY EDGE LIGHTS
—○—	NEW CONDUIT WITH TAXIWAY EDGE LIGHT
—○—	NEW CONDUIT WITH RUNWAY EDGE LIGHT
◁○○○○▷	REIL AND RUNWAY THRESHOLD LIGHTS
▽ E	GROUND ROD (EXISTING)
▽	GROUND ROD
□	HANDHOLE
①	LIGHTED TAXIWAY/RUNWAY SIGN IDENTIFICATION NUMBER
B.C.	BARE CONDUCTOR

NOTES

- ① EXISTING RUNWAY IS TO BECOME TAXIWAY FOR NEW RUNWAY. REPLACE EXISTING RUNWAY EDGE LIGHT LENSES WITH BLUE LENSES MARKING NEW TAXIWAY.
- ② REMOVE EXISTING TAXIWAY LIGHTS IN NEW APRON AREA. USE EXISTING LIGHT BASES AS HANDHOLES. PROVIDE NEW STEEL COVER PLATES. REPLACE EXTG TAXIWAY LIGHTING CABLE FROM CONSTANT CURRENT REGULATOR TO FIRST TAXIWAY LIGHT BEYOND APRON AREA.
- ③ NEW TAXIWAY LIGHTS TO MARK RAMP TO NEW RUNWAY. INTERCEPT EXISTING CONDUIT FOR POWER.
- ④ REMOVE EXISTING RUNWAY, REIL, THRESHOLD AND VASI LIGHTS (INCLUDING BASES) MARKING EXISTING RUNWAY TO BE OBLITERATED AND TURN OVER TO DOT MAINTENANCE PERSONNEL.
- ⑤ SPLICE INTO EXISTING REIL LIGHTS WIRING AT EXISTING HANDHOLE TO POWER NEW REIL LIGHTS. ROUTE NEW WIRING THROUGH EXISTING AND NEW CONDUITS AS SHOWN.
- ⑥ CROSS EXISTING RUNWAY WITH NEW CONDUIT FOR CIRCUIT SELECTOR SWITCH WIRING. SEE WIRING DETAIL SHEET E-3.
- ⑦ GRADE TO BE RAISED +/- 1 FT. ADJUST EXTG HANDHOLES TO MEET FINISHED GRADE.
- ⑧ COBBLES AND BOULDERS ARE KNOWN TO EXIST IN THE EXISTING EMBANKMENT AREAS.

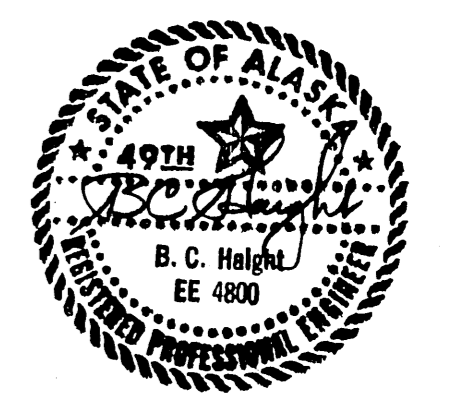


REV	DATE	ACTION	DESCRIPTION	BY	APVD
B.C. Haight Consulting Engineers 430 Fourth Street, Juneau, Alaska, (907) 588-8788					E-1
State of Alaska, DOT/PF Haines Airport Runway Lighting Haines, Alaska					
EXISTING RUNWAY PLAN					
PROJECT NUMBER 69523			Scale: AS NOTED	Sheet No	
Date: APRIL 90			Date: APRIL 90		
Drwn. PEL	Dsgn. TSM	Apvd. BCH	SH. 33 OF 39		

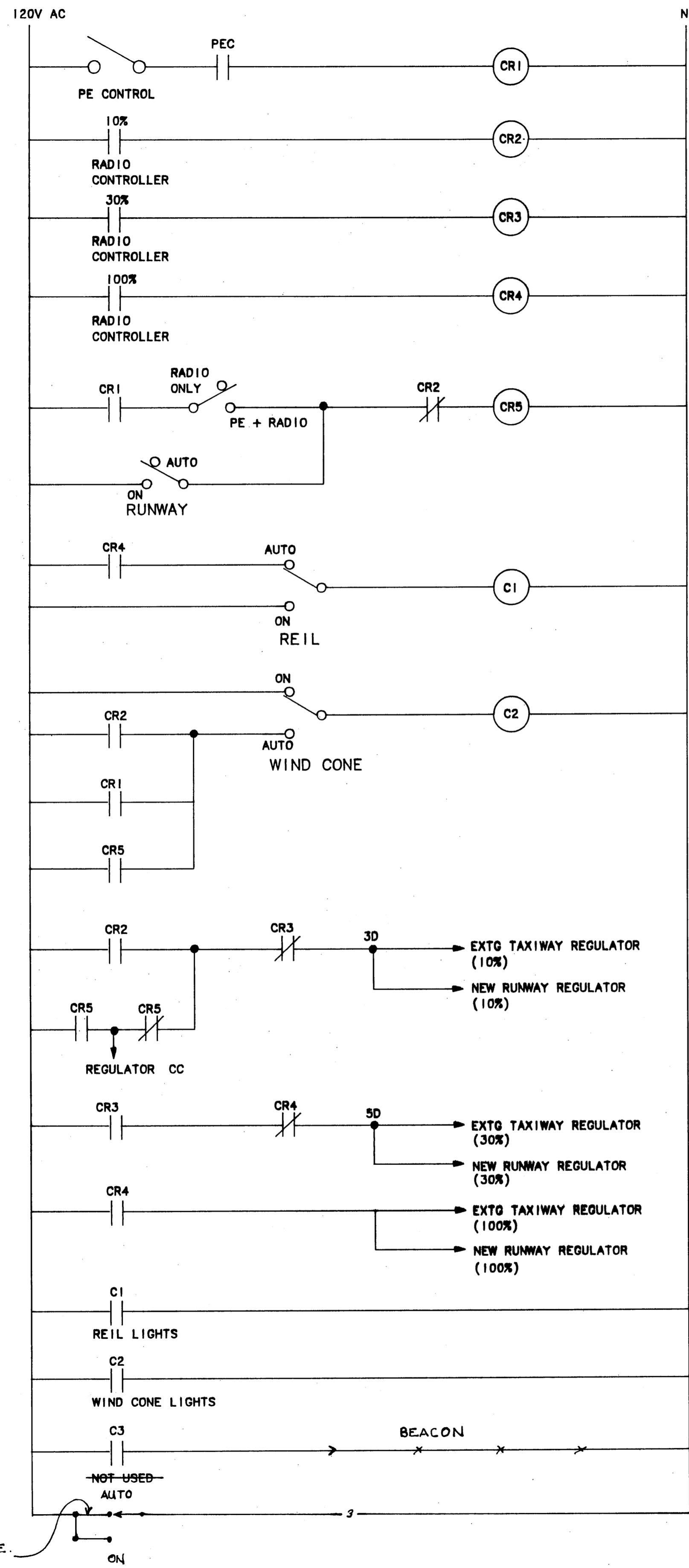


NOTES

- ① RAMP C AND D ARE TO BE USED DURING SUMMER MONTHS ONLY. TAXIWAY LIGHTS FROM RAMP B EAST SHALL BE SHUT OFF BY THE CIRCUIT SELECTOR SWITCH DURING THE WINTER MONTHS.

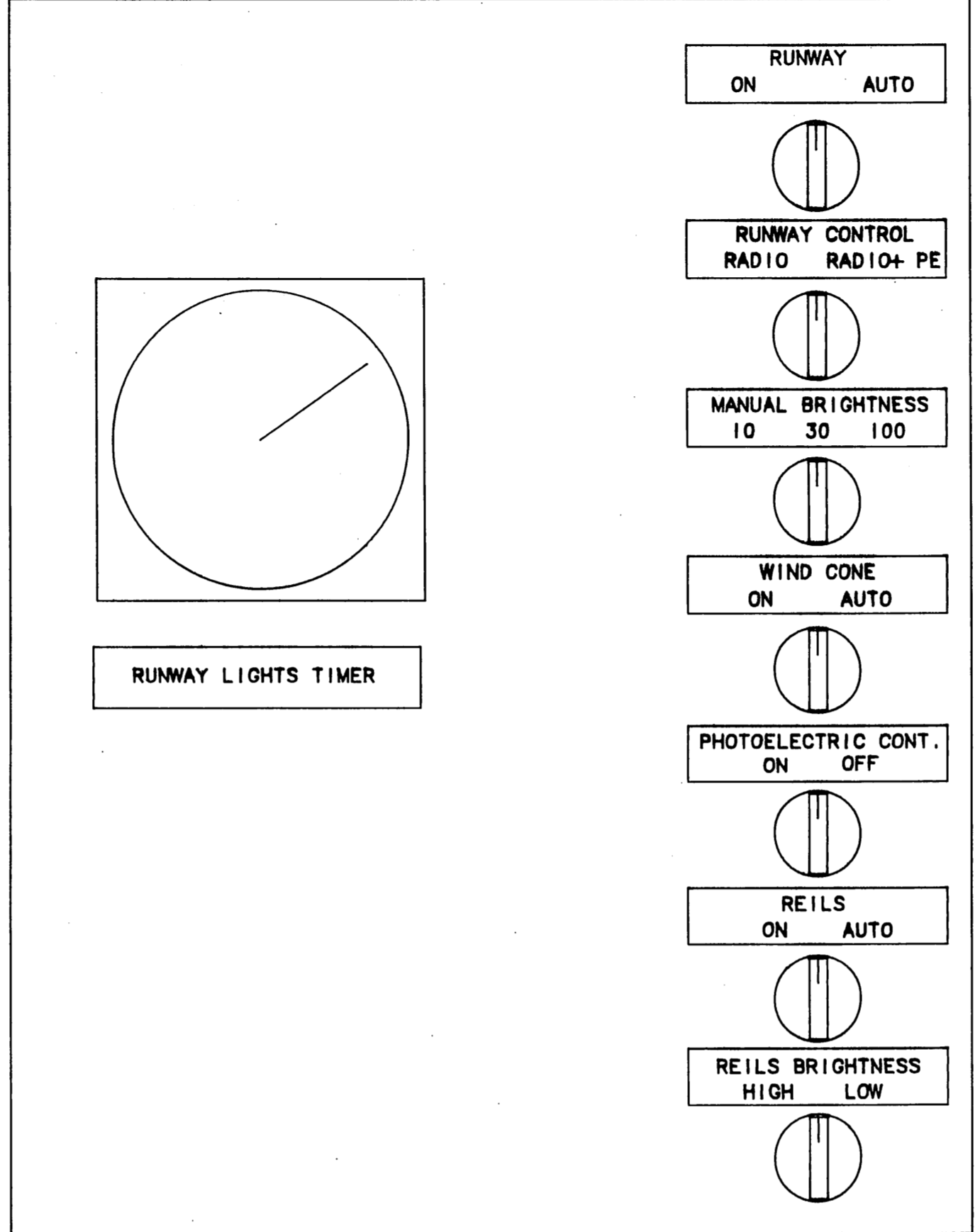


8/90	ADDED NEW WIND CONE	T.M.	T.M.
REV	DATE	ACTION	DESCRIPTION
B.C. Haight Consulting Engineers 430 Fourth Street, Juneau, Alaska, (907) 588-6788			E-2
State of Alaska, DOT/PF Haines Airport Runway Lighting Haines, Alaska			
NEW RUNWAY PLAN			
PROJECT NUMBER 69523		Scale: AS NOTED Date: APRIL 90	Sheet No.
Drwn. TSM	Dsgn. TSM	Apvd. BCH	SH. 34 of 39

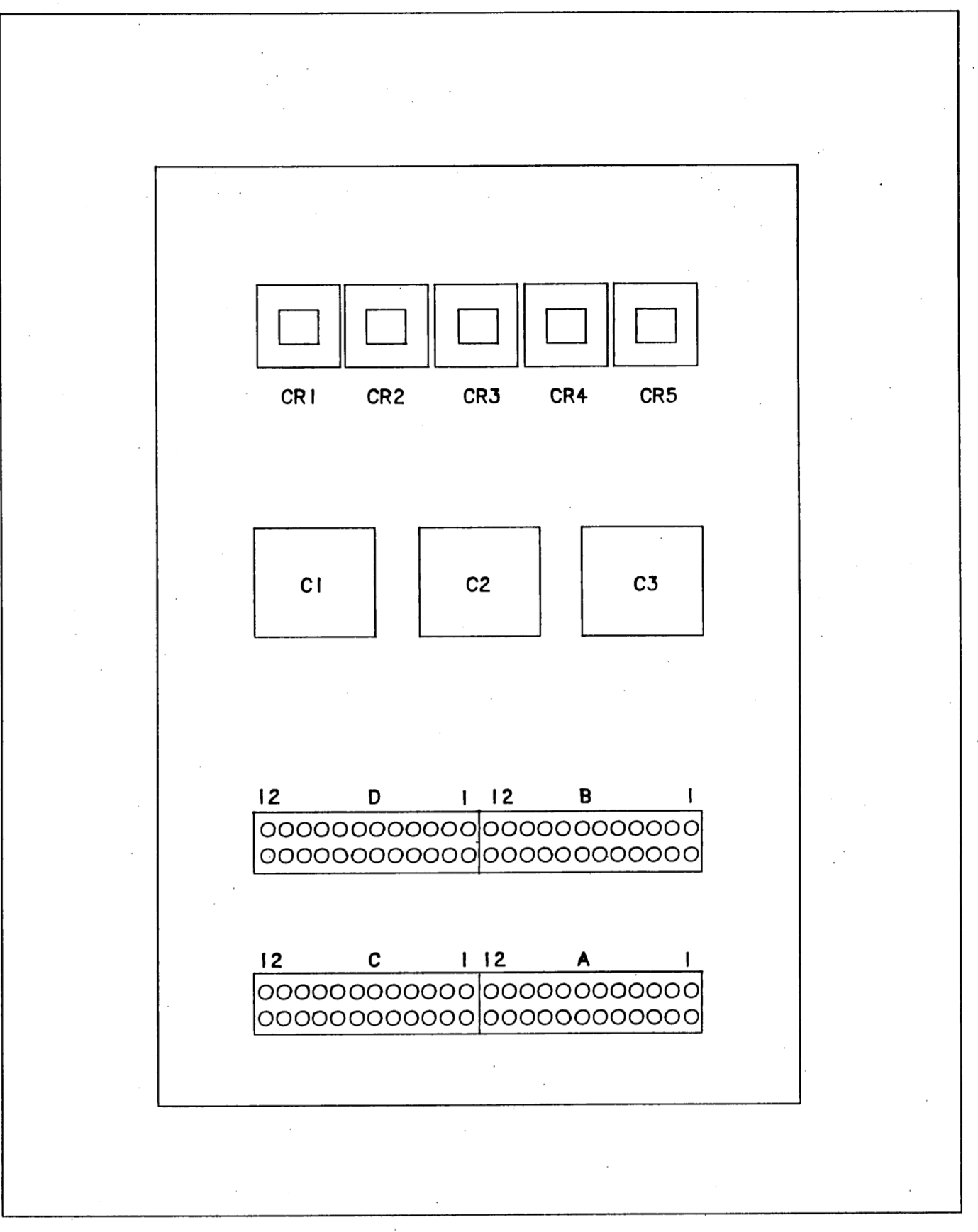


AIRPORT LIGHTING CONTROLS LADDER DIAGRAM

NO SCALE



COVER LAYOUT



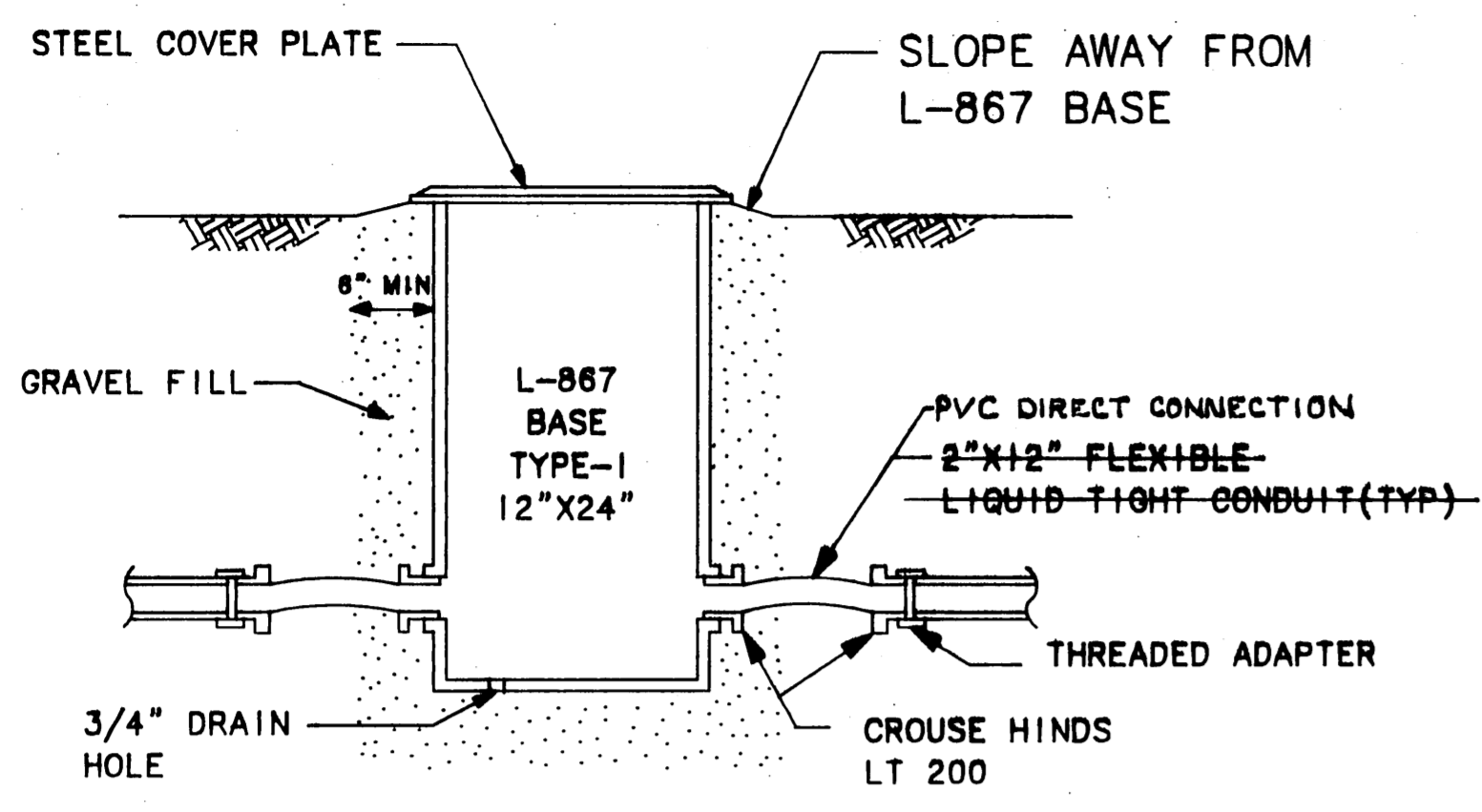
INTERIOR LAYOUT

EXISTING AIRPORT LIGHTING CONTROLS

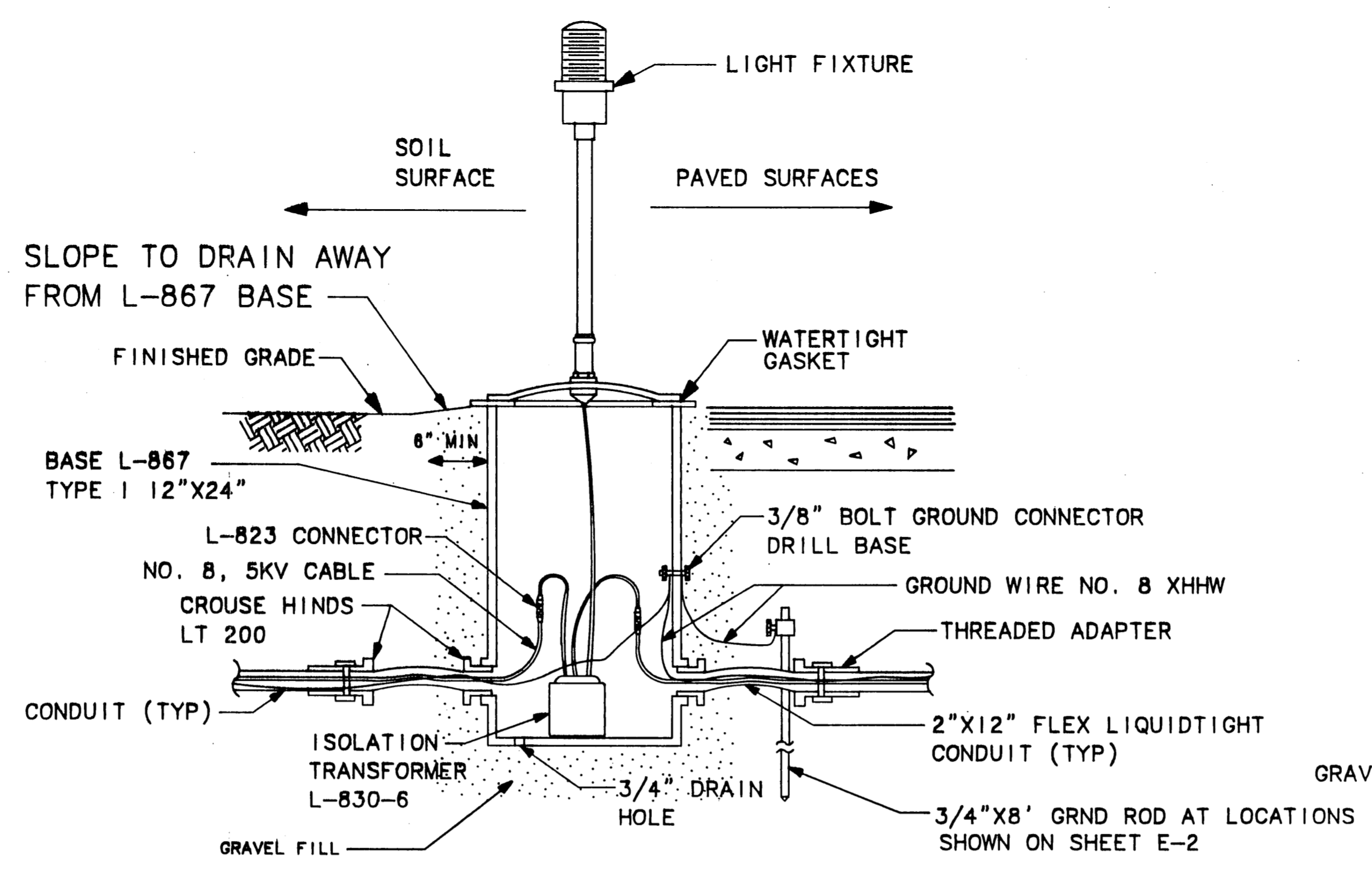
NO SCALE



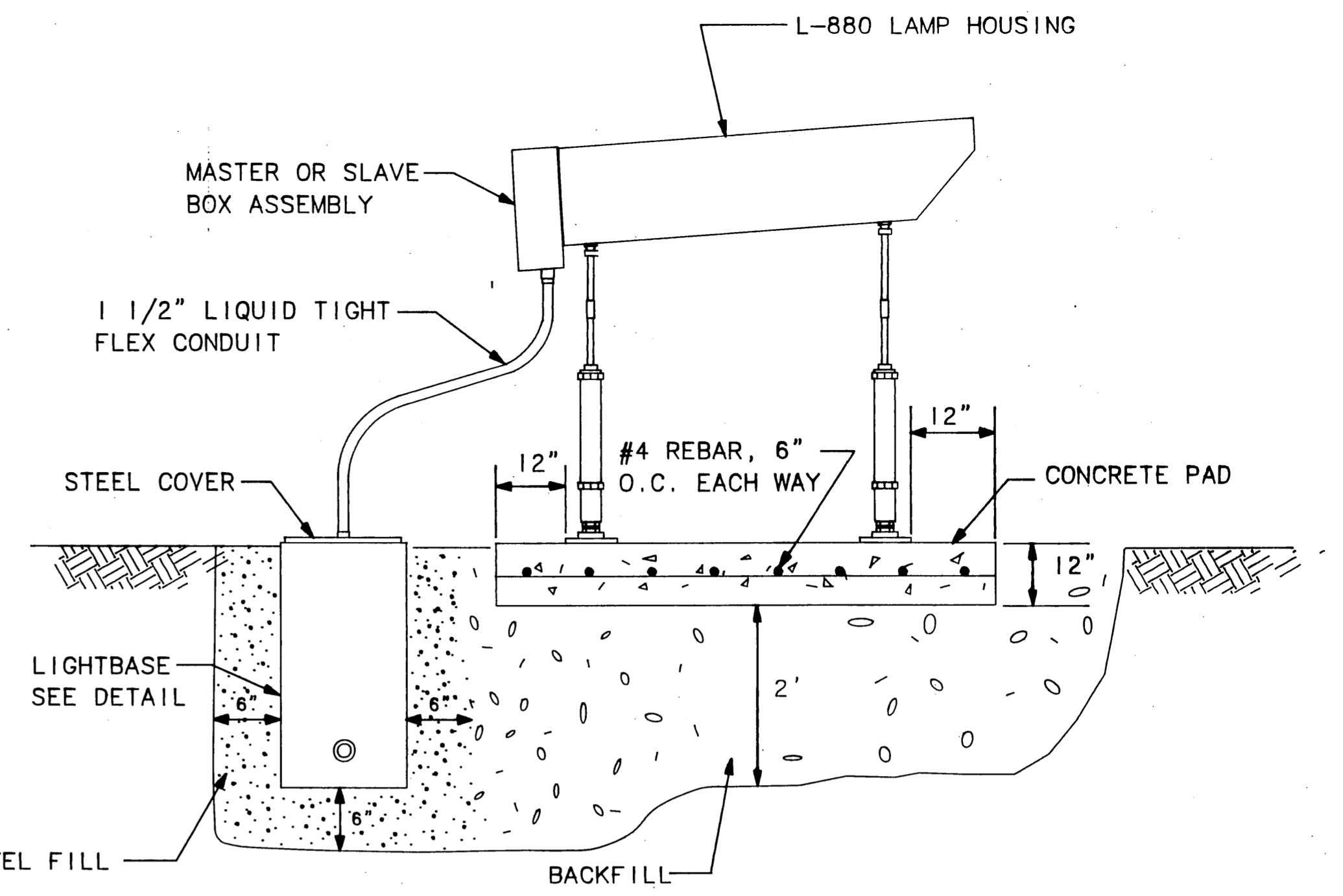
REV	DATE	ACTION	DESCRIPTION	BY	APVD
B.C. Haight Consulting Engineers 430 Fourth Street, Juneau, Alaska, (907) 586-9788					E-4
State of Alaska, DOT/PF Haines Airport Runway Lighting Haines, Alaska					
DETAILS					
PROJECT NUMBER 69523			Scale: AS NOTED		
Date: APRIL 90					
Drwn. TSM	Dagn. TSM	Apvd. BCH	SH. 36 of 39		



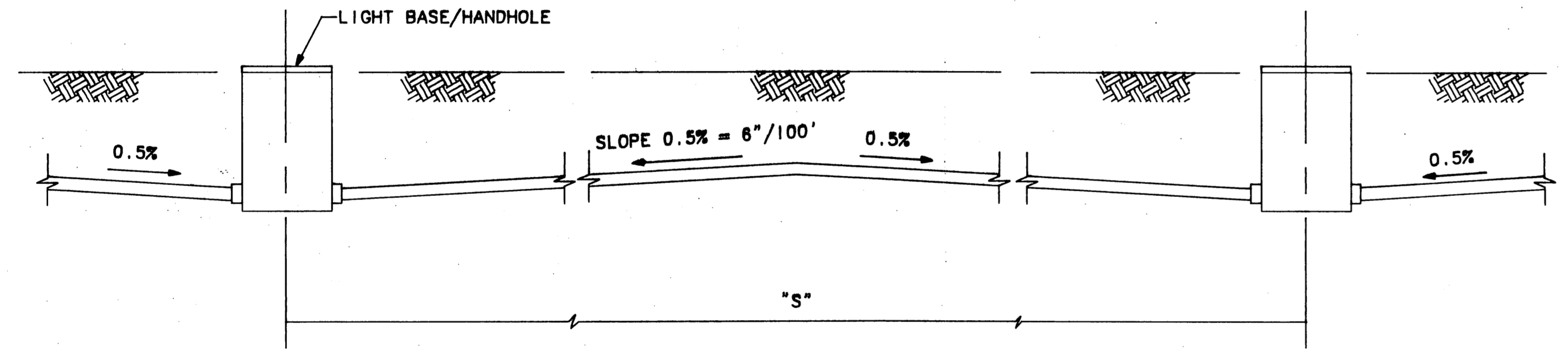
DETAIL HANDHOLE
NO SCALE



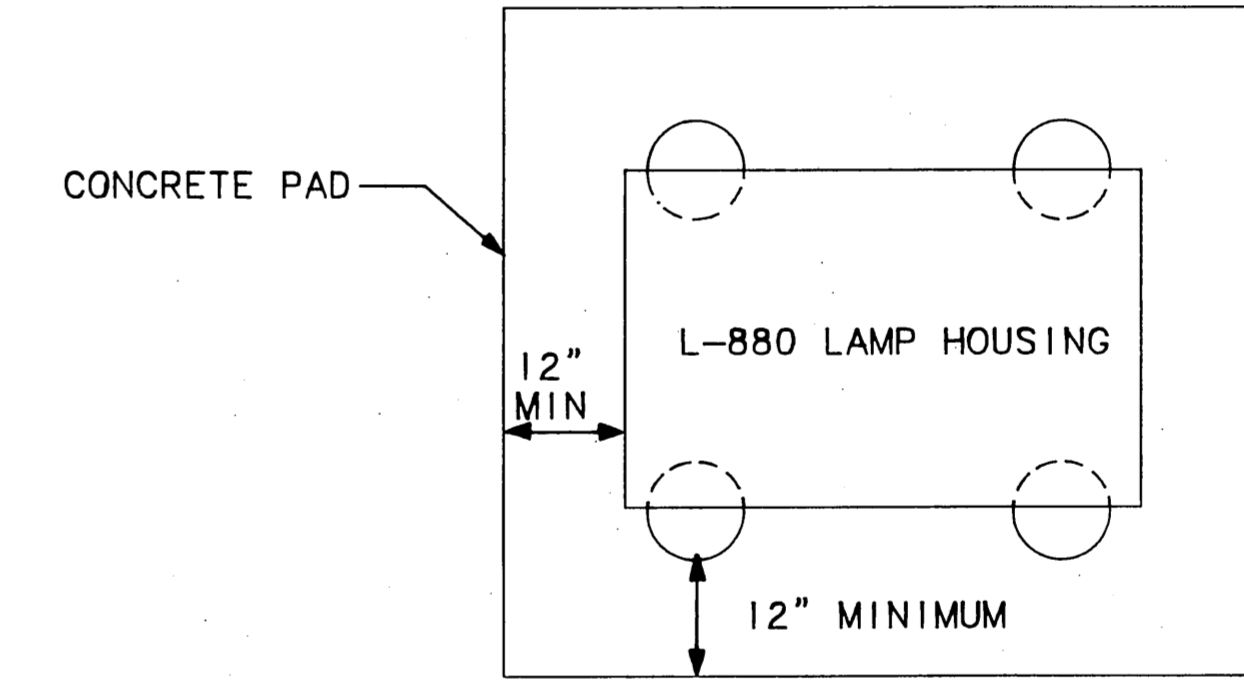
DETAIL RUNWAY OR TAXIWAY EDGE LIGHT OR THRESHOLD LIGHT
NO SCALE



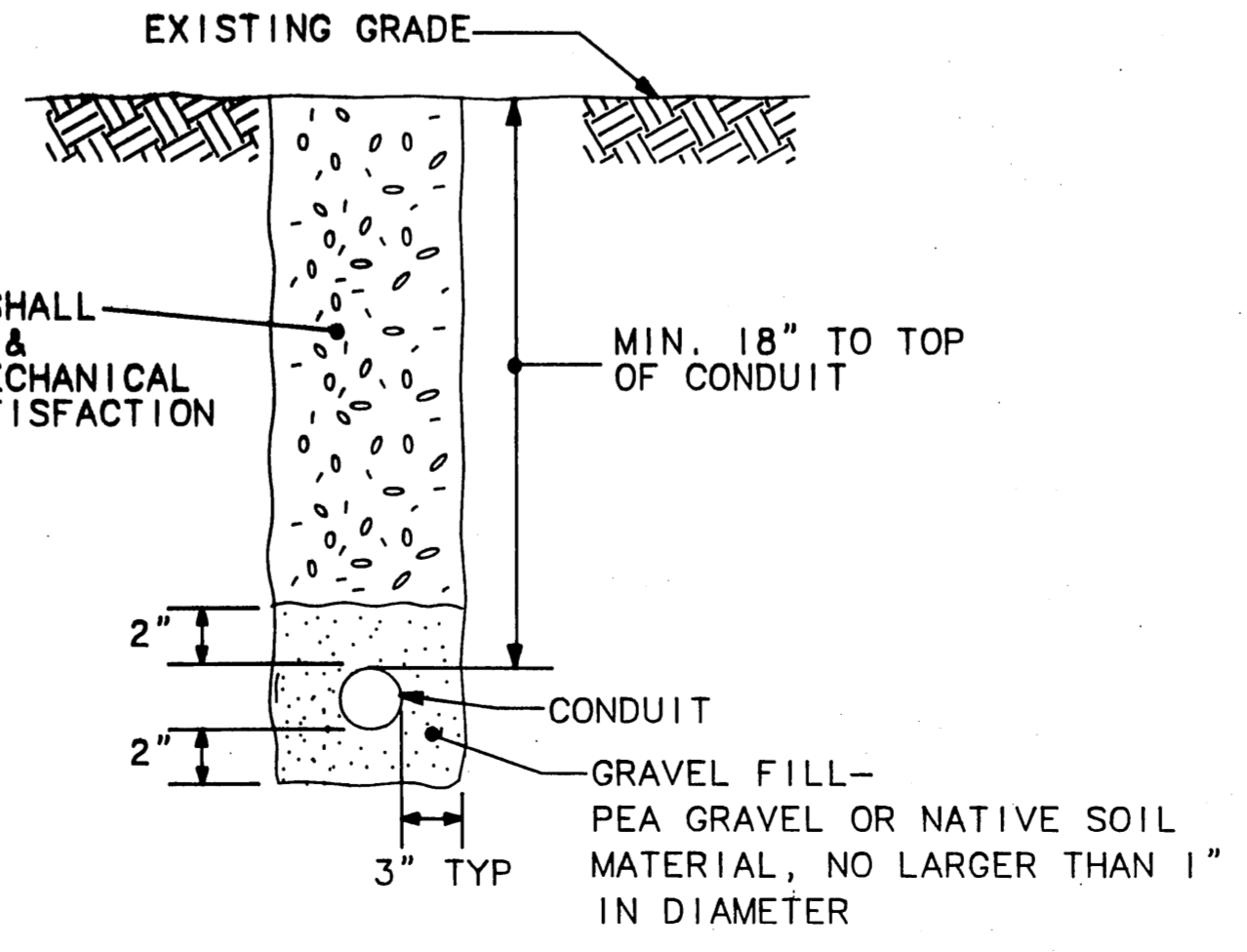
DETAIL PAPI LIGHT
NO SCALE



DETAIL CONDUIT INSTALLATION
NO SCALE



PLAN VIEW PAPI LIGHT
NO SCALE

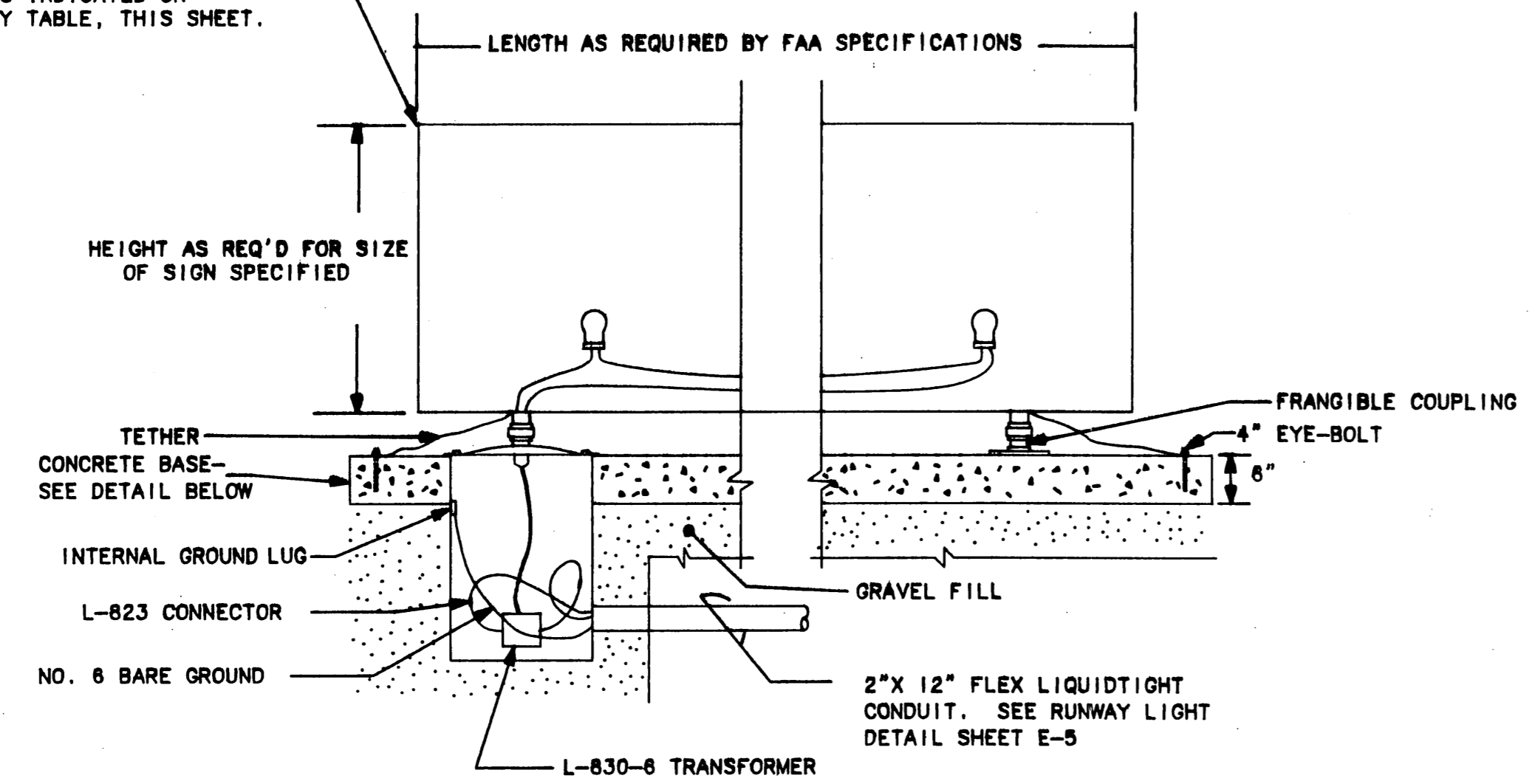


CONDUIT TRENCH DETAIL
NO SCALE



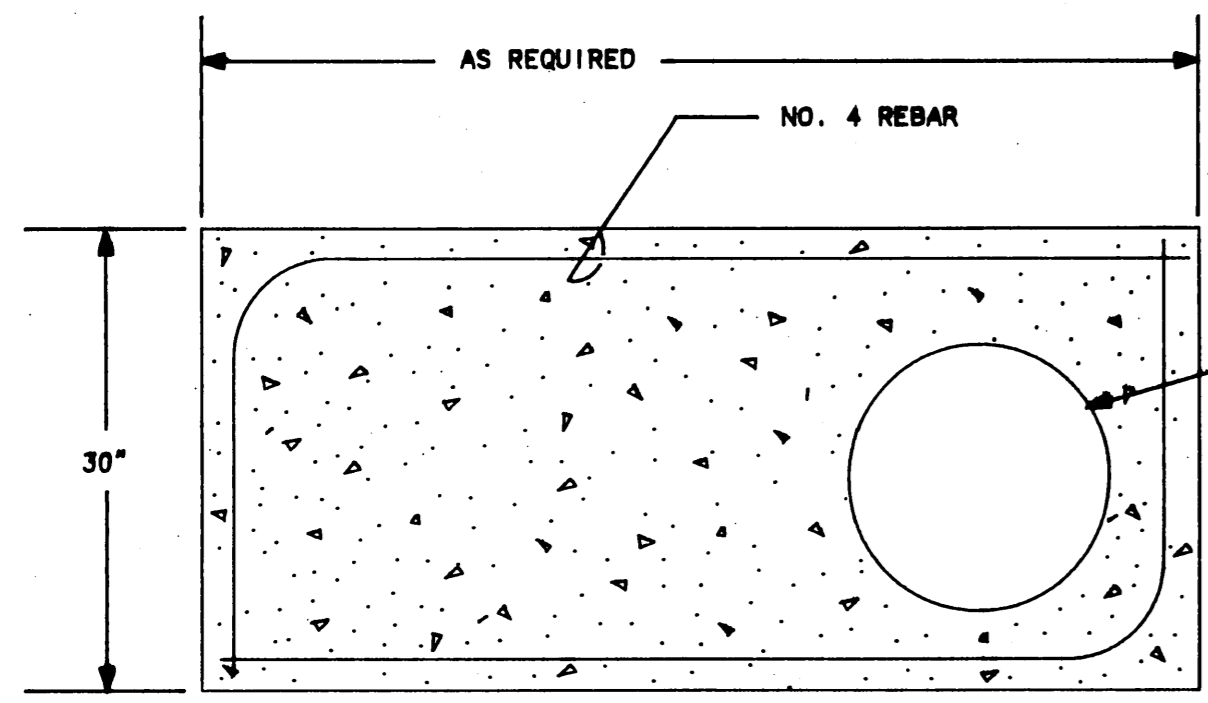
REV	DATE	ACTION	DESCRIPTION	BY	APVD
B.C. Haight Consulting Engineers 430 Fourth Street, Juneau, Alaska, (907) 586-6766					E-5
State of Alaska, DOT/PF Haines Airport Runway Lighting Haines, Alaska					
DETAILS					
PROJECT NUMBER			Scale: AS NOTED		
69523			Date: APRIL 90		
Drwn. TSM	Degn. TSM	Apvd. BCH	SH. 37 OF 39		

INTERNALLY LIGHTED L-856-Y,
L-856-R, OR L-856-B SIGN WITH
LETTERING AS INDICATED ON
SIGN SUMMARY TABLE, THIS SHEET.

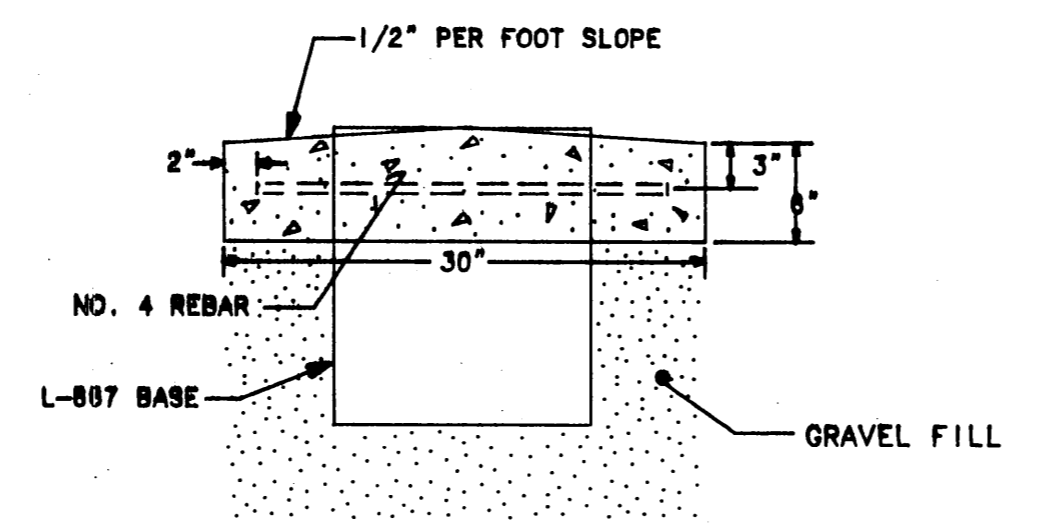


LIGHTED SIGN DETAIL

NO SCALE



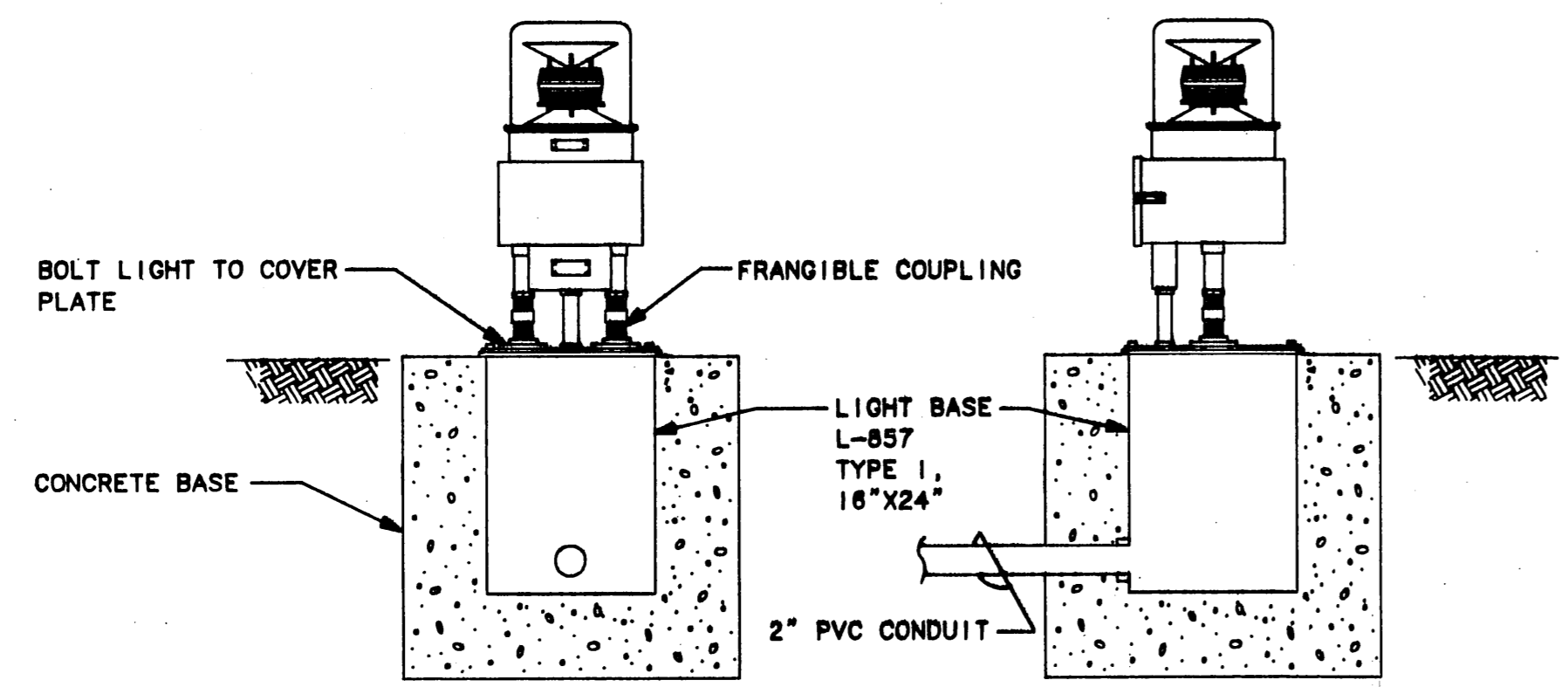
TOP VIEW



SIDE VIEW

CONCRETE BASE DETAILS

NO SCALE



RUNWAY END IDENTIFIER LIGHT DETAILS

NO SCALE

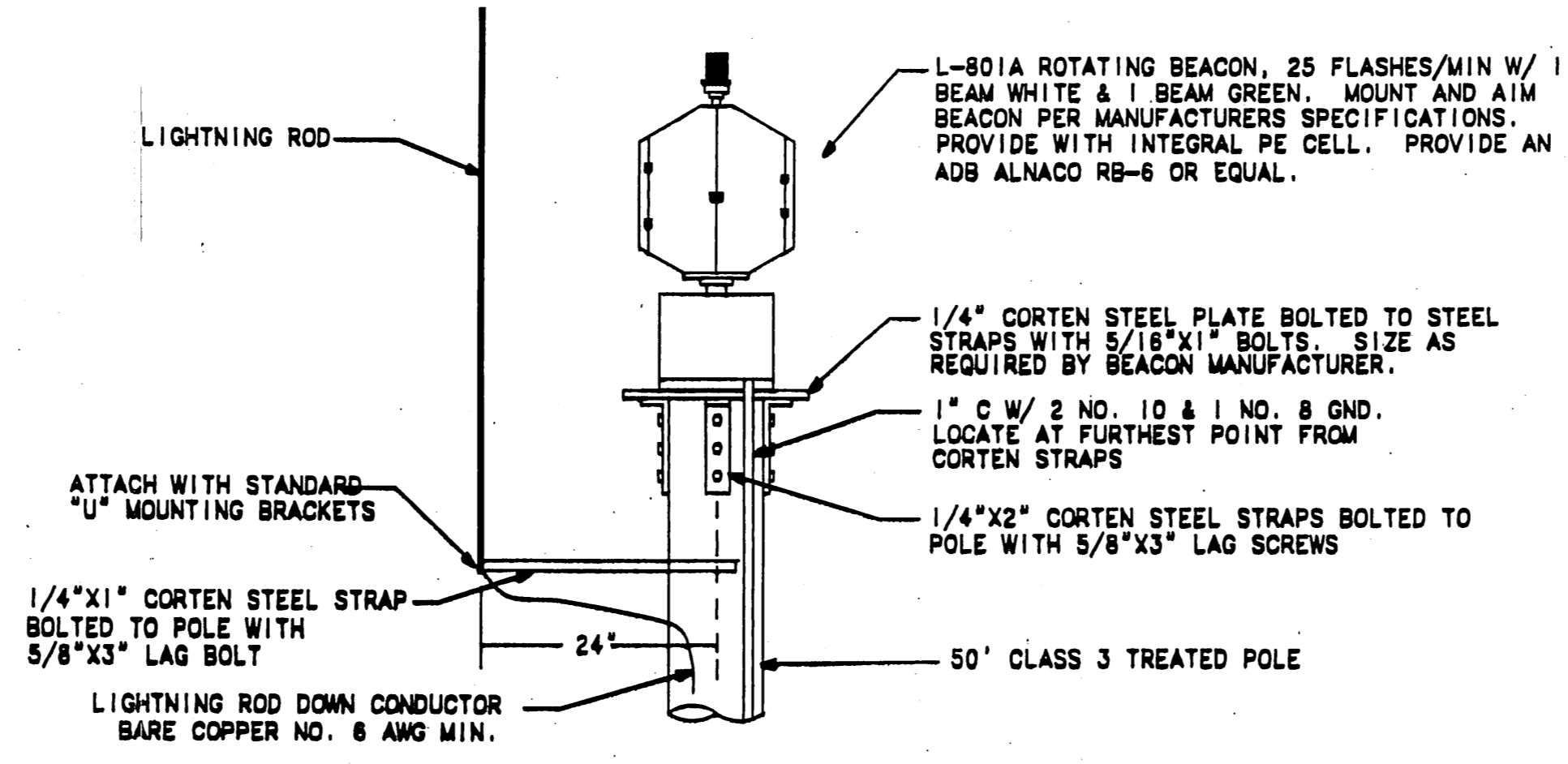
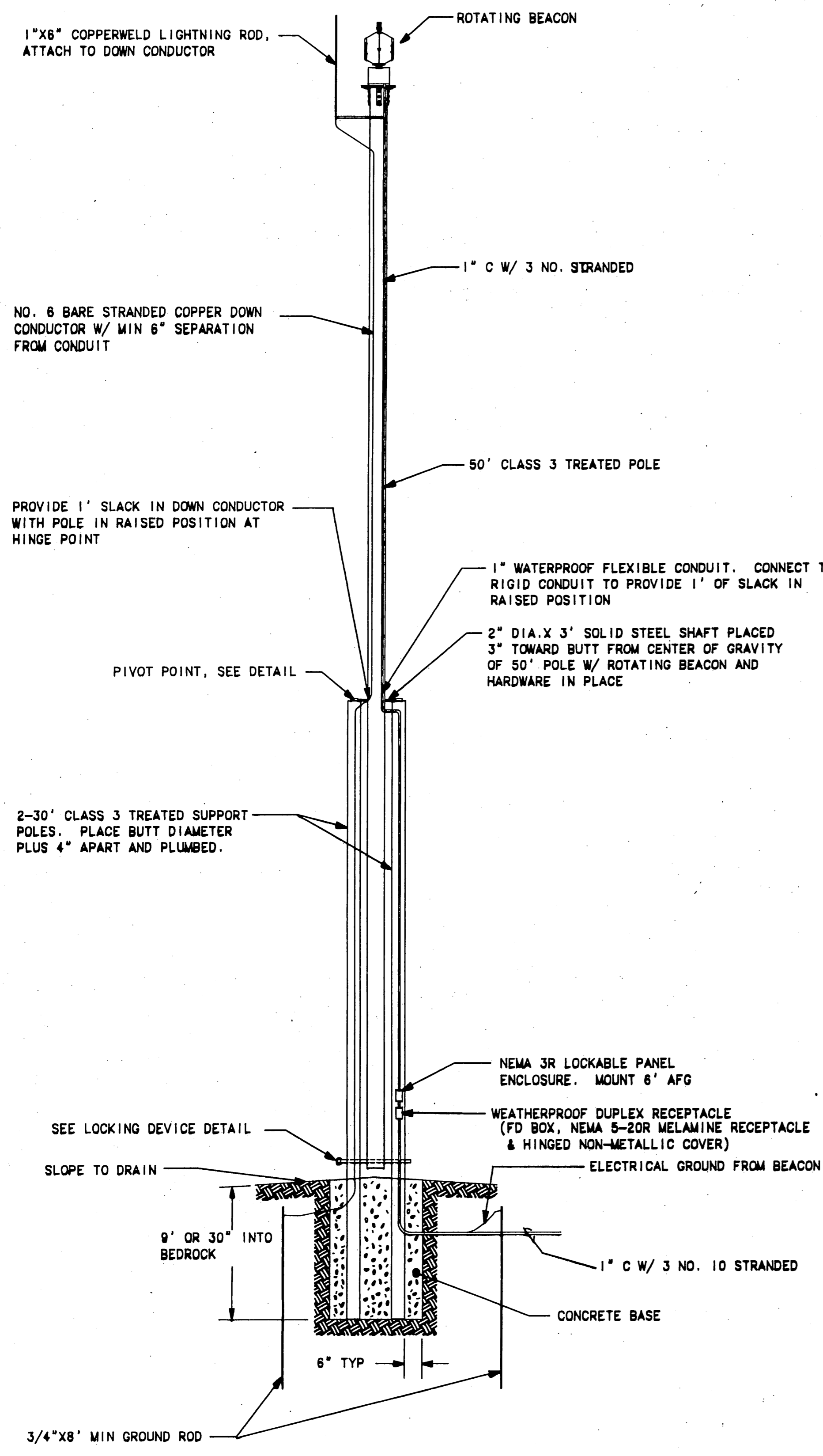
SIGN SUMMARY

SIGN NO.	LEGEND	SIGN FACE SIZE	LETTER SIZE & COLOR	BACKGROUND COLOR	TYPE ①	LEGEND DIRECTION	STATION	RNWAY ② OFFSET	REMARKS
①	26-8	60 x 18	12" WHITE	RED	M	NORTH	10+50	150'	INSTALL PARALLEL TO T/W HOLD LINE
②	A	30 X 18	12" BLACK	YELLOW	I	WEST	10+90	50'	
③ _a	3	42 X 30	25" WHITE	BLACK	I	EAST	20+00	65'	
③ _b	1	42 X 30	25" WHITE	BLACK	I	WEST	20+00	65'	
④	B	30 X 18	12" BLACK	YELLOW	I	EAST	24+30	50'	
⑤	26-8	60 x 18	12" WHITE	RED	M	SOUTH	25+30	150'	INSTALL PARALLEL TO T/W HOLD LINE
⑥	B	30 X 18	12" BLACK	YELLOW	I	WEST	25+70	50'	
⑦ _a	2	42 X 30	25" WHITE	BLACK	I	EAST	30+00	65'	
⑦ _b	2	42 X 30	25" WHITE	BLACK	I	WEST	30+00	65'	
⑧	C	30 X 18	12" BLACK	YELLOW	I	EAST	34+30	50'	
⑨	26-8	60 x 18	12" WHITE	RED	M	SOUTH	35+30	150'	INSTALL PARALLEL TO T/W HOLD LINE
⑩	C	30 X 18	12" BLACK	YELLOW	I	WEST	35+70	50'	
⑪ _a	1	42 X 30	25" WHITE	BLACK	I	EAST	40+00	65'	
⑪ _b	3	42 X 30	25" WHITE	BLACK	I	WEST	40+00	65'	
⑫	D	30 X 18	12" BLACK	YELLOW	I	EAST	49+10	50'	
⑬	26-8	60 x 18	12" WHITE	RED	M	SOUTH	50+10	150'	INSTALL PARALLEL TO T/W HOLD LINE

① M = MANDATORY
I = INFORMATIONAL

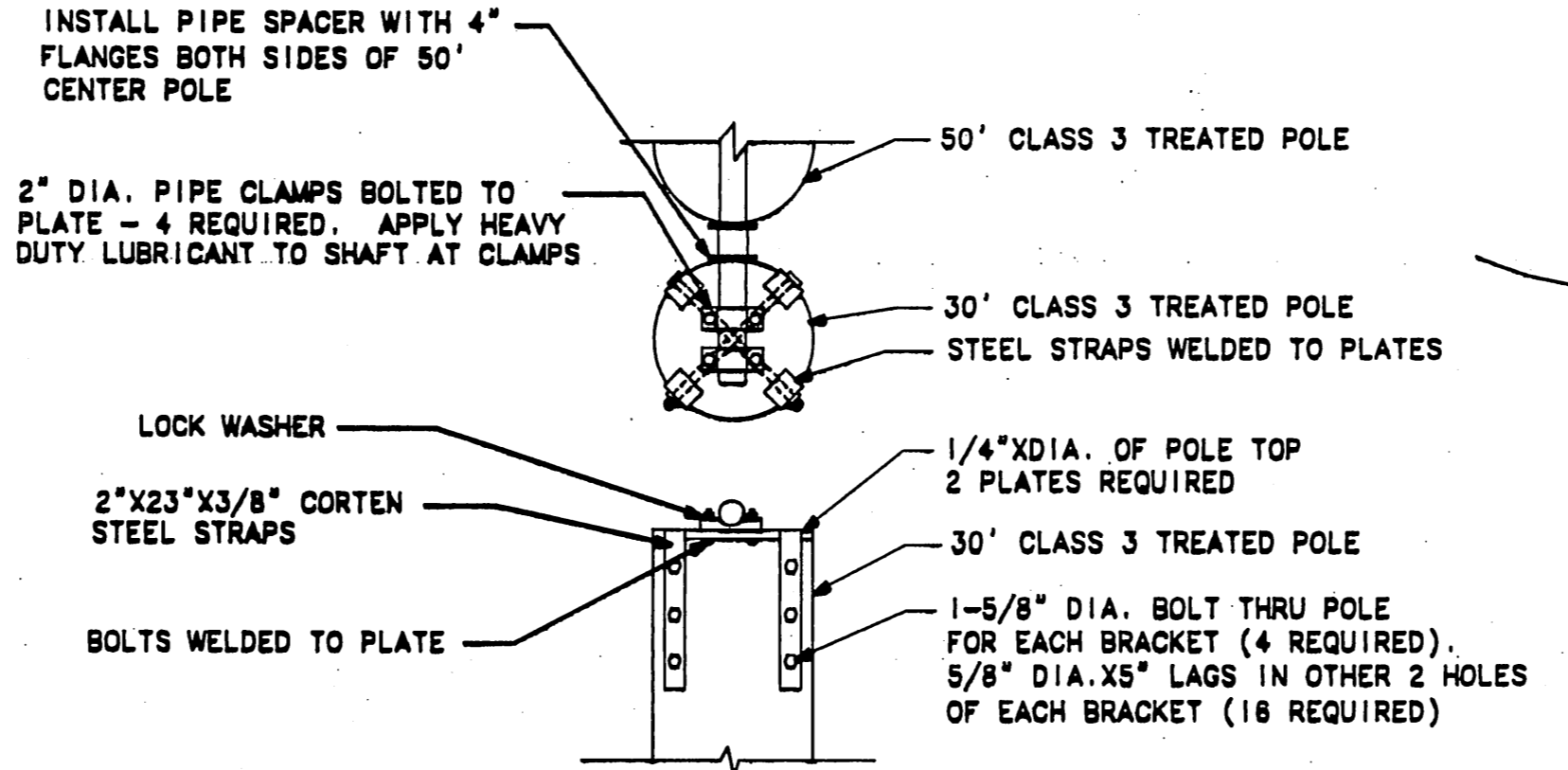


REV	DATE	ACTION	DESCRIPTION	BY	APVD
B.C. Haight Consulting Engineers 430 Fourth Street, Juneau, Alaska, (907) 588-9788					E-6
State of Alaska, DOT/PF Haines Airport Runway Lighting Haines, Alaska					
DETAILS					
PROJECT NUMBER			Scale: AS NOTED		
69523			Date: APRIL 90		
Drwn.	TSM	Dgn.	TSM	Apvd.	BCH
					38 of 39



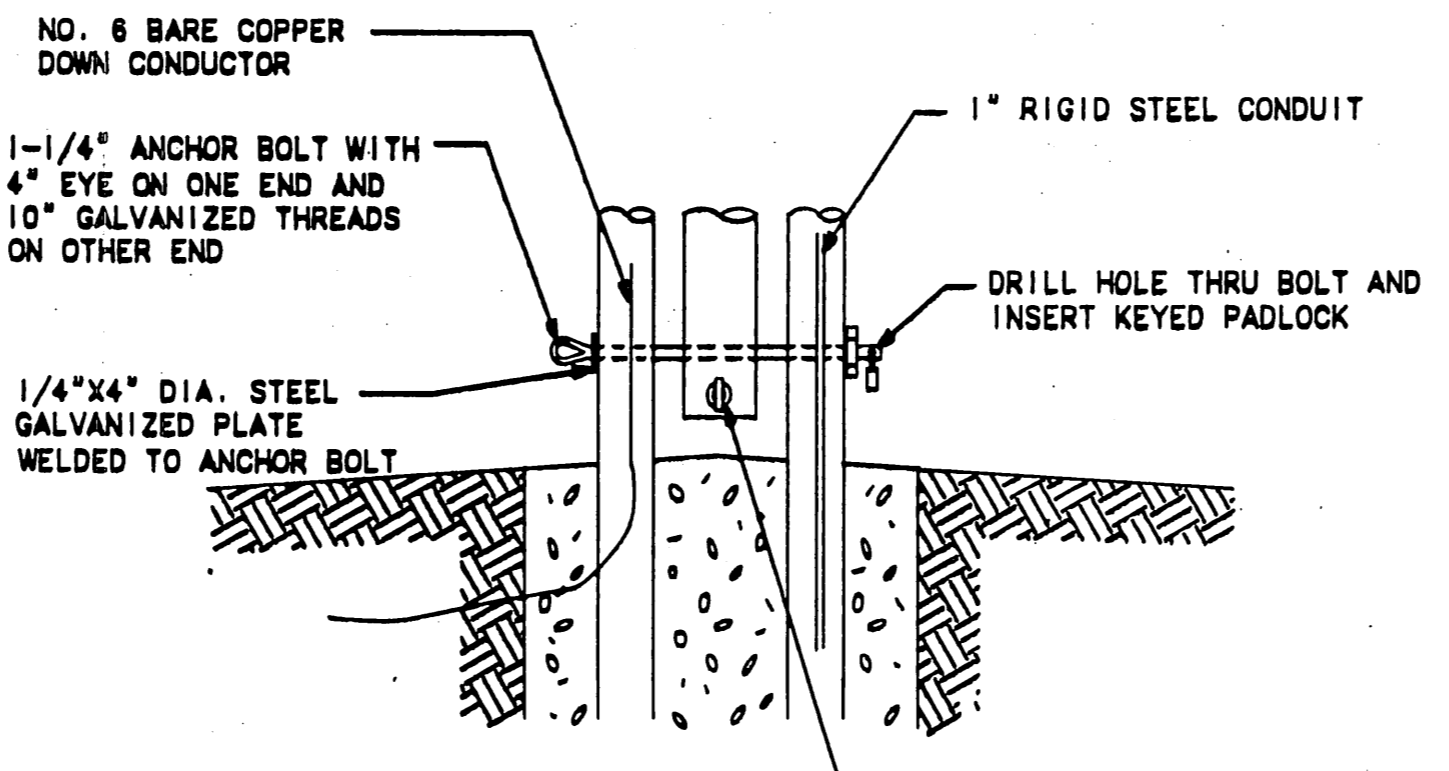
ROTATING BEACON AND MOUNTING BRACKET DETAIL

NO SCALE



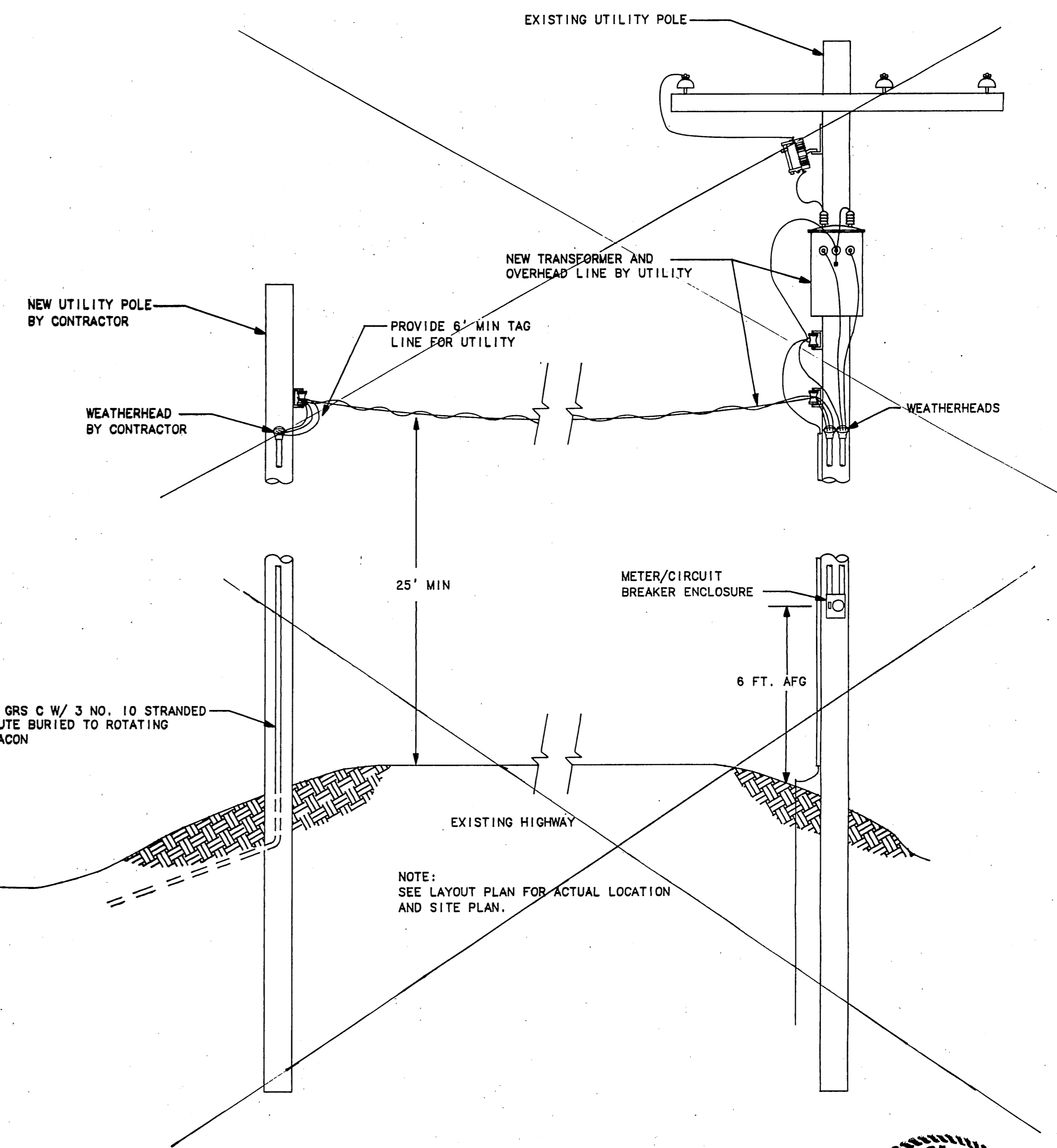
PIVOT DETAIL

NO SCALE



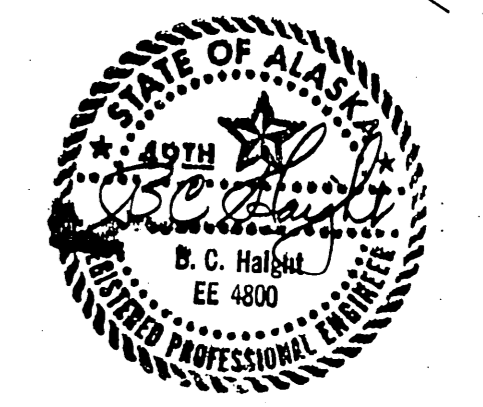
LOCKING DEVICE DETAIL

NO SCALE



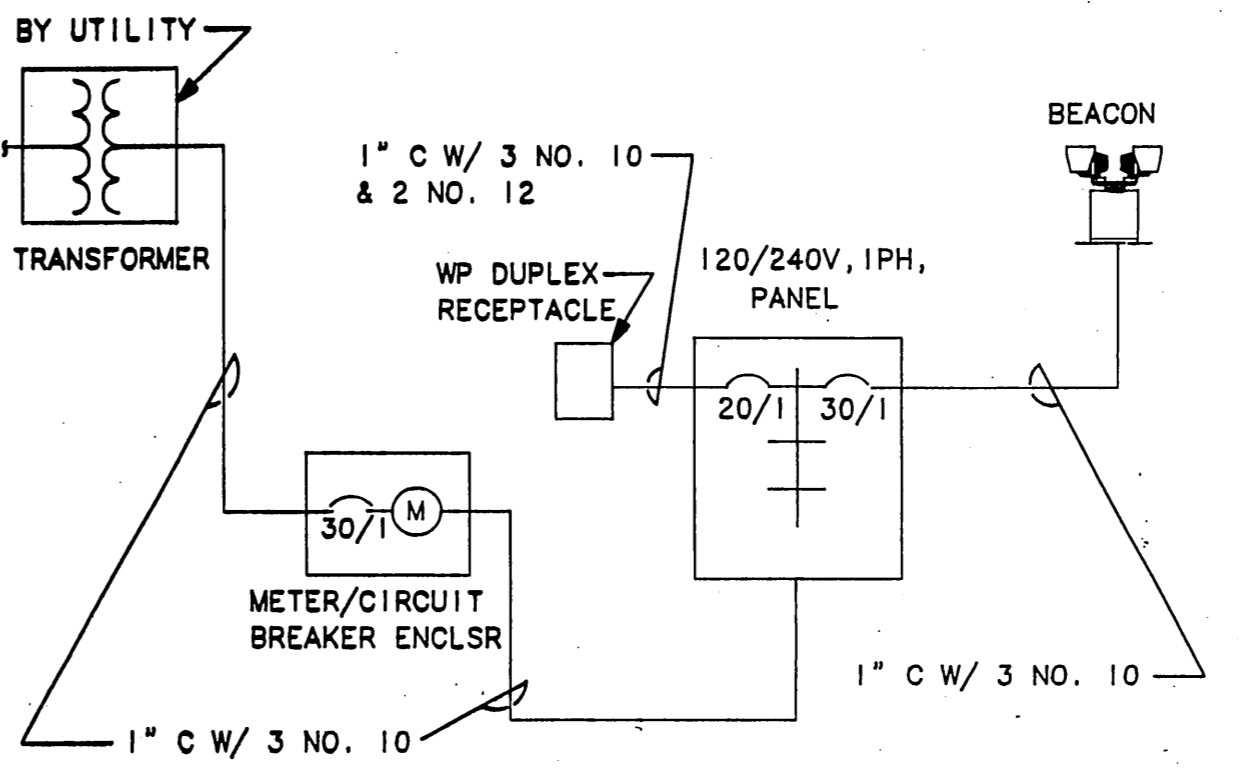
ELECTRICAL SERVICE UNDERGROUND ORIGINATING AT AIRPORT TERMINAL - SERVICE DROP DETAIL

NO SCALE



NOTES

- EQUALLY SPACE 24 VERTICLE AND 24 HORIZONTAL #4 REBAR IN CONCRETE FOUNDATION. CLEAR DISTANCE FOR REBAR SHALL BE 4" TOP AND BOTTOM AND 3" SIDE.
- SEE LAYOUT PLAN FOR ACTUAL LOCATION AND SITE PLAN.
- ALTERNATE SUPPORT TOWER MAY BE SUBSTITUTED FOR THE ONE SHOWN PROVIDED IT MEETS THE DESIGN LOADING CRITERIA FOR A 100 MPH WIND LOADING.

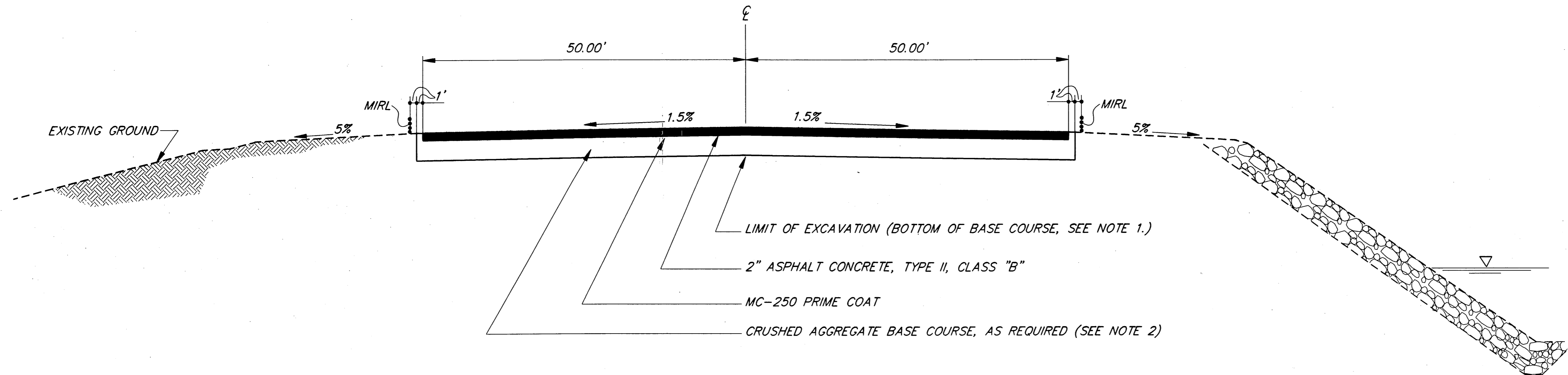


BEACON SINGLE LINE DIAGRAM

NO SCALE

REV	DATE	ACTION	DESCRIPTION	BY	APVD
<p align="center">B.C. Haight Consulting Engineers 430 Fourth Street, Juneau, Alaska, (907) 586-9788</p>					E-7
<p align="center">State of Alaska, DOT/PF Haines Airport Runway Lighting Haines, Alaska</p>					
<p align="center">ROTATING BEACON DETAILS</p>					
PROJECT NUMBER			Scale: AS NOTED		
69523			Date: APRIL 90		
Drwn.	TSM	Dsgn.	TSM	Appvd.	BCH
					SH. 39 OF 39

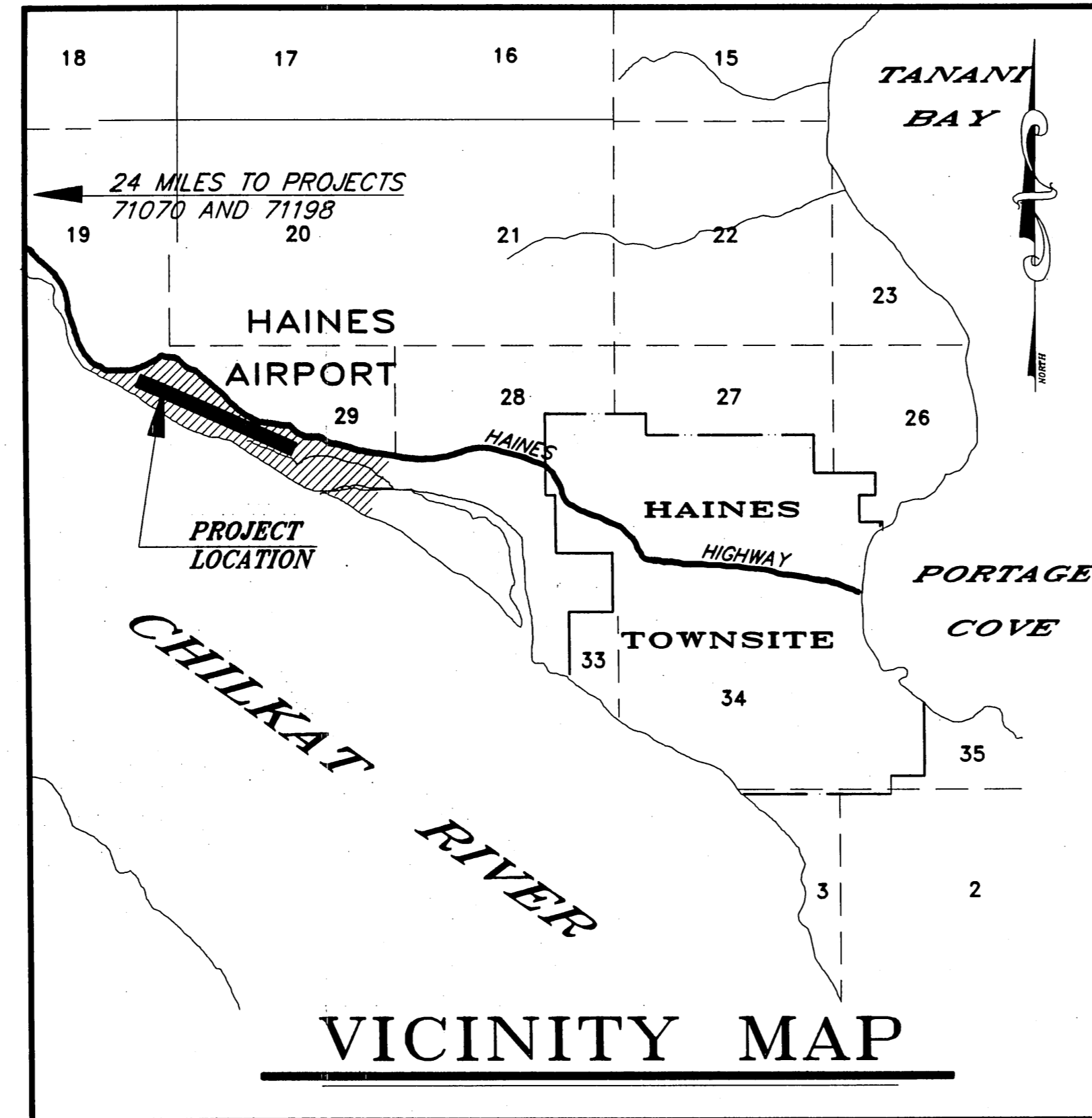
ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANT.
120(1)	DBE ADJUSTMENT	CS	ALL REQ'D
203(12)	EXCAVATION & COMPACTION	LS	ALL REQ'D
201(3A)	CLEARING & GRUBBING	ACRE	0.269
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	100,460.7
202(2)	REMOVAL OF PAVEMENT	SY	1,844
401(1)	ASPHALT CONCRETE, TYPE II CLASS "B"	TON	570,107.2
401(2)	PBA-3 ASPHALT CEMENT	TON	32.0
403(3)	MC-250 LIQUID ASPHALT FOR PRIME COAT	TON	3,524.45
103(3)	UNCLASSIFIED EXCAVATION	CY	202
203(11)	EMBANKMENT	CY	337
640(1)	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
642(1a)	CONSTRUCTION SURVEYING (AIRPORT)	LS	ALL REQ'D
670(3)	PAINTED AIRPORT MARKINGS	LS	ALL REQ'D
304(2)	SUBBASE GRADING "C"	CY	498
401(2A)	AC-5 ASPHALT CEMENT	TON	37.66



RUNWAY TYPICAL SECTION

STA. "0" 13+00 TO STA. "0" 17+00

- GENERAL NOTES**
- THE EXISTING 8" TO 10" OF CRUSHED BASE COURSE SHALL BE REMOVED AND STOCKPILED FOR USE IN THE REPAIR AREA AFTER THE EMBANKMENT HAS BEEN RECOMPACTED IN ACCORDANCE WITH SECTION 203.
 - ADDITIONAL BASE COURSE, IF REQUIRED, SHALL BE USED TO FILL THE AREA THAT HAS SETTLED. ALL BASE COURSE WORK SHALL CONFORM TO THE SPECIFICATIONS.
 - THE VERTICAL AND HORIZONTAL CONTROL SHALL BE A STRAIGHT LINE FROM THE EXISTING CUT EDGES OF ASPHALT CONCRETE. THE RUNWAY WAS CONSTRUCTED AT A UNIFORM LONGITUDINAL GRADE OF -0.0870%.
 - AIRPORT CONSTRUCTION PLANS ARE AVAILABLE FOR REVIEW BY CONTACTING GREG BROWNING AT THE HAINES CONSTRUCTION OFFICE, PHONE NO. 1-(907) 766-2887.



615(1)	STANDARD SIGNS	SF	4
616(4)	THAW WIRE INSTALLATION	LS	ALL REQ'D
640(1A)	ADDITIONAL MOBILIZATION & DEMOB.	LS	ALL REQ'D
642(1B)	ADDITIONAL CONSTRUCTION SURVEYING	LS	ALL REQ'D
670(1A)	PAINTED AIRPORT MARKINGS	LS	ALL REQ'D
670(1B)	ADD'L PAINTED TRAFFIC MARKINGS	LS	ALL REQ'D
603(19-21)	21" x 15" PIPE ARCH	LF	30

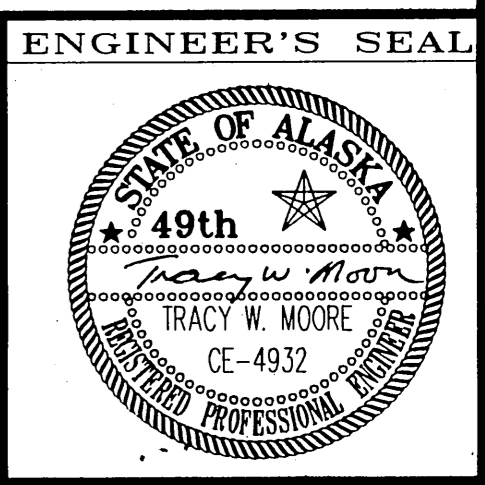
AS-BUILT
B.A. 2-8-96

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HAINES
HAINES AIRPORT
A.I.P. NO. 3-02-0112-03, 69523
ALASKA
DESIGNED BY: C. HAKARI
DRAWN BY: C. ANDERSON
CHECKED BY: T.W. MOORE

PROJECT NO.
DATE: JAN. 1993
SHEET HA1 OF 1



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

RUNWAY PAVEMENT REPAIR